United States Department of Agriculture

Natural Resources Conservation Service

In cooperation with Spokane County Conservation District and Washington State University, Agricultural Research Center

Soil Survey of Spokane County, Washington

How To Use This Soil Survey

General Soil Map

The general soil map, which is a color map, shows the survey area divided into groups of associated soils called general soil map units. This map is useful in planning the use and management of large areas.

To find information about your area of interest, locate that area on the map, identify the name of the map unit in the area on the color-coded map legend, then refer to the section **General Soil Map Units** for a general description of the soils in your area.

Detailed Soil Maps

The detailed soil maps can be useful in planning the use and management of small areas. They are available from the Web Soil Survey site (http://websoilsurvey.nrcs.usda.gov/app/).

To find information about your area of interest, go to Web Soil Survey, click on "Help," and follow the four basic steps. Note the map unit symbols that are in that area. Turn to the **Contents**, which lists the map units by symbol and name and shows the page where each map unit is described.

The **Contents** shows which table has data on a specific land use for each detailed soil map unit. Also see the **Contents** for sections of this publication that may address your specific needs.

National Cooperative Soil Survey

This soil survey is a publication of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (formerly the Soil Conservation Service) has leadership for the Federal part of the National Cooperative Soil Survey. This survey was made cooperatively by the Natural Resources Conservation Service and the Spokane County Conservation District and Washington State University, Agricultural Research Center. The survey is part of the technical assistance furnished to the Spokane County Conservation District.

Major fieldwork for this soil survey was completed in 2010. Soil names and descriptions were approved in 2012. Unless otherwise indicated, statements in this publication refer to conditions in the survey area in 2012. The detailed soil maps and the most current official data for this survey are available from the Web Soil Survey site (http://websoilsurvey.nrcs.usda.gov/app/)

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Cover Caption

View of Spokane County looking southeast to Gelbert and Tekoa Mountains.

Additional information about the Nation's natural resources is available online from the Natural Resources Conservation Service at http://www.nrcs.usda.gov.

Foreword

Soil surveys contain information that affects land use planning in survey areas. They include predictions of soil behavior for selected land uses. Farmers, ranchers, foresters, and agronomists can use the surveys to evaluate the potential of the soil and the management needed for maximum food and fiber production. Planners, community officials, engineers, developers, builders, and home buyers can use the surveys to plan land use, select sites for construction, and identify special practices needed to ensure proper performance. Conservationists, teachers, students, and specialists in recreation, wildlife management, waste disposal, and pollution control can use the surveys to help them understand, protect, and enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. The information in this report is intended to identify soil properties that are used in making various land use or land treatment decisions. Statements made in this report are intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://soils.usda.gov/sqi/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app) or your NRCS State soil scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

These and many other soil properties that affect land use are described in this soil survey. The location of each map unit is shown on the detailed soil maps. Each soil in the survey area is described, and information on specific uses is given. Help in using this publication and additional information are available at the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

Roylene Rides at the Door
State Conservationist
Natural Resources Conservation Service

Location of Spokane County in Washington.

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Soil Survey of Spokane County, Washington

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in cooperation with the Spokane Conservation District and Washington State University, Agricultural Experiment Station

SPOKANE COUNTY is in the eastern part of Washington State, bordering the Idaho panhandle. The survey area includes the cities of Spokane and Spokane Valley. It encompasses about 1.1 million acres, or about 1,700 square miles.

The survey area consists of mountains, hills, valleys, prairies, plains, and channeled scablands. It is bounded to the east by mountains and hills. Three prominent mountain peaks, from north to south, are Mount Spokane, Mica Peak, and Tekoa Mountain, in the southeastern corner of the survey area. The Spokane Valley is the largest valley, and it is centrally located. Other prominent valleys include the Little Spokane River Valley in the north and the Hangman Valley to the south. The Palouse Prairie, in the southeastern part of the county, is the largest of several prairies. Other prominent smaller prairies in the northwest are the Four Mound, Wild Rose, and Half Moon Prairies. The communities of Airway Heights and Deer Park are on large plains in the western and northern parts of the survey area, respectively. The channeled scablands are south and west of Cheney.

Principle drainageways are the Spokane River, which flows west from Coeur d' Alene Lake; the Little Spokane River, which flows south; and Hangman Creek, which flows north to the confluence with the Spokane River. Pine Creek, in the southern part of the survey area, flows south into Whitman County.

The lowest point, at an elevation of about 1,540 feet, is along the Spokane River (Long Lake), near the Lincoln County line. The city of Spokane, on an outwash terrace, is at an elevation of about 1,900 feet. Mount Spokane, to the northeast, is the highest elevation at 5,890 feet.

This soil survey updates an earlier survey of the county (USDA, 1968). The present survey provides additional information.

Climate

Climate data were recorded at the Spokane Weather Station Office Airport, Washington, in the period 1971 to 2000. Thunderstorm days, relative humidity, percent sunshine, and wind information are estimated from data recorded at this station.

Table 1 gives data on temperature and precipitation, table 2 shows probable dates of the first freeze in fall and the last freeze in spring, and table 3 provides data on the length of the growing season.

In winter, the average temperature is 29 degrees F and the average daily minimum temperature is 23 degrees. The lowest temperature on record, which occurred on December 30, 1968, is -25 degrees. In summer, the average temperature is about 66 degrees and the average daily maximum temperature is about 80 degrees. The highest recorded temperature, which occurred on August 4, 1961, is 108 degrees.

Growing degree days are shown in table 1. They are equivalent to “heat units.” During the month, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (40 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

The total annual precipitation is about 17 inches. Of this, about 5 inches, or 30 percent, usually falls in May through September. The growing season for most crops falls within this period. The average annual precipitation in the western part of the survey area is 15 to 18 inches. It increases moving eastward to a maximum of about 45 inches on Mount Spokane. The heaviest 1-day rainfall recorded was 1.65 inches on June 22, 1905. Thunderstorms occur on about 10 days each year, and most occur in May through August.

The average seasonal snowfall is about 44 inches, but Mount Spokane receives 150 to 200 inches of snow annually. The average seasonal snowfall in the far western part of the survey area is 35 to 40 inches. The greatest recorded snow depth at any one time was 42 inches on February 1, 1969. On average, 47 days of the year have at least 1 inch of snow on the ground. The heaviest 1-day snowfall recorded was about 13 inches on January 21, 1954.

The average relative humidity in midafternoon is about 50 percent (78 percent in January and 26 percent in July). Humidity is higher at night, and the average at dawn is about 76 percent (85 percent in January and 62 percent in July). The sun shines 76 percent of the time possible in summer and 32 percent in winter. The prevailing wind generally is from the south, but it is from the northeast in November through January. Average windspeed is highest, 10 miles per hour, in March and April.

How This Survey Was Made

This survey was made to provide information about the soils and miscellaneous areas in the survey area. The information includes a description of the soils and miscellaneous areas and their location and a discussion of their suitability, limitations, and management for specified uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

The soils in this survey area were mapped and correlated according to the concepts and limits of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land

uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA. This survey area consists of parts of MLRAs 9, 43A, and 44A.

The soils and miscellaneous areas in the survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs, such as productivity indices for crops and hay. The nonirrigated wheat productivity index in table 6 and the nonirrigated hay productivity indices in table 7 are examples of new interpretations developed for Spokane County. Data are assembled from other sources, such as research information, production records, and field experience of specialists.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

Soil maps are developed after soil scientists have identified and located the significant natural bodies of soils in the survey area. Using a combination of onscreen digitizing and traditional mapping techniques, soil scientists draw soil map unit boundaries on digital and hard copy aerial photography. Soil map units are

evaluated using a variety of digital spatial analyses within a geographic information system (GIS). The primary data layers used in these evaluations are scanned U.S. Geological Survey (USGS) topographic quadrangle maps (DRGs), digital elevation models (DEMs) derived from the USGS National Elevation Dataset (NED), and DEM derivatives, including hillshade, slope, and aspect. Digital data and aerial imagery show relief, topographical features, tonal patterns, vegetation, buildings, fields, roads, and rivers, all of which are helpful in determining accurate boundaries.

General Soil Map Units

The general soil map in this publication shows broad areas that have a distinctive pattern of soils, relief, and drainage. Each map unit on the general soil map is a unique natural landscape. Typically, it consists of one or more major soils or miscellaneous areas and some minor soils or miscellaneous areas. It is named for the major soils or miscellaneous areas. The components of one map unit can occur in another but in a different pattern.

The general soil map can be used to compare the suitability of large areas for general land uses. Areas of suitable soils can be identified on the map. Likewise, areas where the soils are not suitable can be identified.

Because of its small scale, the map is not suitable for planning the management of a farm or field or for selecting a site for a road or building or other structure. The soils in any one map unit differ from place to place in slope, depth, drainage, and other characteristics that affect management.

Soils on Foothills and Mountains

Number of map units: 3
Percentage of survey area: About 19 percent

1. Bouldercreek-Jacot-Boulderjud (igneous and metamorphic parent material; frigid/udic soil climate regime)

Soils on gently sloping to very steep foothills and mountains

Percentage of survey area: About 12 percent
Elevation: 1,970 to 5,000 feet
Parent material: Residuum and colluvium derived from granite, quartz-monzonite, schist, and gneiss with a thick mantle of volcanic ash
Potential native vegetation: Forest-forb plant community with western hemlock, grand fir, western redcedar, wild ginger, and queencup beadlily
Minor components: Hysing, Quinnamose, Micapeak, Blackprince, Kellerbutte, Brickel, and Vaywood soils

Bouldercreek soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high over high
Texture of surface layer: Ashy silt loam
Slope range: 3 to 70 percent

Jacot soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high over high
Texture of surface layer: Ashy silt loam
Slope range: 3 to 55 percent

Boulderjud soils
Depth: Deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high over high
Texture of surface layer: Ashy silt loam
Slope range: 15 to 60 percent

2. Lenz-Spokane-Kramerhill-Rock outcrop (igneous and metamorphic parent material; mesic/xeric soil climate regime)

Gently sloping to steep foothills and mountains

Percentage of survey area: About 6 percent
Elevation: 1,700 to 3,600 feet
Parent material: Residuum and colluvium derived from granite, gneiss, and schist with a minor amount of volcanic ash and loess in the upper part
Potential native vegetation: Forest-shrub plant community with ponderosa pine, common snowberry, creambush oceanspray, and mallow ninebark
Minor components: Glenrose, Micapeak, Quinnamose, and Kruse soils

Lenz soils
Depth: Moderately deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Very gravelly ashy sandy loam
Slope range: 3 to 60 percent

Spokane soils
Depth: Moderately deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy loam
Slope range: 3 to 55 percent

Kramerhill soils
Depth: Deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy loam
Slope range: 3 to 40 percent

Rock outcrop
Description of areas: Granitic rock exposed at the surface that supports very sparse or no vegetation

3. Ardenvoir-Tekoa-Lotuspoint (metasedimentary parent material; frigid, mesic/xeric soil climate regime)

Moderately sloping to very steep foothills and mountains

Percentage of survey area: About 1 percent
Elevation: 2,080 to 4,840 feet
Parent material: Residuum and colluvium derived from metasedimentary rock such as siltite and fine-grained quartzite with an influence of volcanic ash and loess in the upper part
Potential native vegetation: Forest-shrub and shrub-grass plant communities with grand fir, Rocky Mountain Douglas-fir, ponderosa pine, common snowberry, creambush oceanspray, mallow ninebark, Idaho fescue, and bluebunch wheatgrass
Minor components: McCrosket, Pinecreek, Cassyhill, Libertybutte, and Schumacher soils

Ardenvoir soils
Depth: Deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Gravelly ashy silt loam
Slope range: 5 to 65 percent

Tekoa soils
Depth: Moderately deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Gravelly ashy silt loam
Slope range: 10 to 65 percent

Lotuspoint soils
Depth: Moderately deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Stony ashy silt loam
Slope range: 5 to 65 percent

Loessal Soils on Basalt Plateaus

Number of map units: 2
Percentage of survey area: About 20 percent

4. Naff-Garfield-Thatuna (loess parent material; mesic/xeric soil climate regime)

Level to steep loess hills on basalt plateaus

Percentage of survey area: About 17 percent
Elevation: 2,100 to 2,880 feet
Parent material: Loess

Potential native vegetation: Shrub-grass plant communities with bluebunch wheatgrass, Idaho fescue, Sandberg bluegrass, needle and thread, Saskatoon serviceberry, common snowberry, rose, and several species of sagebrush
Minor components: Larkin, Southwick, Driscoll, Glenrose, Freeman, and Caldwell soils

Naff soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Silt loam
Slope range: 0 to 35 percent

Garfield soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately low
Texture of surface layer: Silt loam
Slope range: 3 to 35 percent

Thatuna soils
Depth: Very deep
Drainage class: Moderately well drained
Saturated hydraulic conductivity (Ksat): Moderately low
Texture of surface layer: Silt loam
Slope range: 3 to 30 percent

5. Athena-Broadax-Reardan (loess parent material; mesic/xeric soil climate regime)

Level to steep loess hills on remnant loess islands of channeled scablands

Percentage of survey area: About 3 percent
Elevation: 2,100 to 2,800 feet
Parent material: Loess
Potential native vegetation: Shrub-grass plant communities with bluebunch wheatgrass, Idaho fescue, Sandberg bluegrass, needle and thread, Saskatoon serviceberry, common snowberry, rose, and several species of sagebrush
Minor components: Lance, Hanning, Brincken, Cheney, and Mondovi soils

Athena soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Silt loam
Slope range: 0 to 60 percent

Broadax soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Silt loam
Slope range: 0 to 30 percent

Reardan soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately low
Texture of surface layer: Silt loam
Slope range: 0 to 25 percent

Soils on Channeled Scablands and Basalt Plateaus

Number of map units: 3
Percentage of survey area: About 29 percent

6. Rockly-Northstar-Rock outcrop-Cocolalla (basalt and volcanic ash parent material; mesic/xeric and aquic soil climate regime)

Level to steep slopes and depressions of basalt plateaus

Percentage of survey area: About 20 percent
Elevation: 1,800 to 2,600 feet
Parent material: Residuum and colluvium derived from basalt mixed with loess and volcanic ash, and alluvium derived from volcanic ash
Potential native vegetation: Shrub-grass, forest-shrub, and wet meadow plant communities with bluebunch wheatgrass, Idaho fescue, Sandberg bluegrass, needle and thread, Saskatoon serviceberry, common snowberry, rose, several species of sagebrush, ponderosa pine, rushes, and sedges
Minor components: Hardesty, Fourmound, Deno, Alecanyon, Stutler, and Tucannon soils and water

Rockly soils
Depth: Very shallow
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Very cobbly loam
Slope range: 0 to 35 percent

Northstar soils
Depth: Moderately deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Extremely cobbly ashy loam
Slope range: 0 to 30 percent

Rock outcrop
Description of areas: Basalt exposed at the surface that supports very sparse or no vegetation

Cocolalla soils
Depth: Very deep
Drainage class: Poorly drained
Saturated hydraulic conductivity (Ksat): Moderately high

Texture of surface layer: Ashy silt loam
Slope range: 0 to 3 percent

7. Cheney-Alecanyon-Phoebe-Stutler (outwash parent material; mesic/xeric soil climate regime)

Level to steep treads and risers on outwash plains

Percentage of survey area: About 7 percent
Elevation: 1,700 to 2,550 feet
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Potential native vegetation: Shrub-grass and forest-shrub plant communities with bluebunch wheatgrass, Idaho fescue, Sandberg bluegrass, needle and thread, Saskatoon serviceberry, common snowberry, rose, several species of sagebrush, and ponderosa pine
Minor components: Bong, Brincken, Seaboldt, Rockly, Uhlig, Hagen, and Narcisse soils

Cheney soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high in the upper part and very high in the lower part
Texture of surface layer: Ashy silt loam
Slope range: 0 to 15 percent

Alecanyon soils
Depth: Very deep
Drainage class: Somewhat excessively drained
Saturated hydraulic conductivity (Ksat): High
Texture of surface layer: Gravelly ashy coarse sandy loam
Slope range: 0 to 40 percent

Phoebe soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): High
Texture of surface layer: Ashy sandy loam
Slope range: 0 to 15 percent

Stutler soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Gravelly ashy silt loam
Slope range: 0 to 15 percent

8. Brincken-Lakespring-Seaboldt (glaciofluvial and loess parent material; mesic/xeric soil climate regime)

Level to moderately steep slopes on outwash terraces and plains and foothills

Percentage of survey area: About 2 percent
Elevation: 1,800 to 2,600 feet

Parent material: Glaciofluvial and laminated glaciolacustrine deposits and loess with a minor amount of loess and volcanic ash in the upper part
Potential native vegetation: Forest-shrub plant communities with Saskatoon serviceberry, common snowberry, rose, mallow ninebark, redstem ceanothus, and ponderosa pine
Minor components: Cheney soils, Xerolls, and Nez Perce, Fourmound, Uhlig, and Bong soils

Brincken soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy silt loam
Slope range: 0 to 25 percent

Lakespring soils
Depth: Moderately deep to a densic contact
Drainage class: Moderately well drained
Saturated hydraulic conductivity (Ksat): Moderately low
Texture of surface layer: Ashy loam
Slope range: 0 to 25 percent

Seaboldt soils
Depth: Moderately deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy loam
Slope range: 0 to 15 percent

Soils on and adjacent to Basalt Canyons, Escarpments, and Plateaus

Number of map units: 2
Percentage of survey area: About 12 percent

9. Marble-Springdale-Spens (sandy outwash parent material; mesic/xeric soil climate regime)

Level to very steep treads and risers on outwash plains and terraces

Percentage of survey area: About 7 percent
Elevation: 1,540 to 2,500 feet
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part in some areas
Potential native vegetation: Forest-grass and shrub plant communities with Idaho fescue, bluebunch wheatgrass, Saskatoon serviceberry, common snowberry, rose, and ponderosa pine
Minor components: Haploxerolls, channeled; water; Marblespring soils; Endoaquolls; Fluvaquents; and Wapal and Scoap soils

Marble soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): High

Texture of surface layer: Loamy sand
Slope range: 0 to 55 percent

Springdale soils
Depth: Very deep
Drainage class: Somewhat excessively drained
Saturated hydraulic conductivity (Ksat): High
Texture of surface layer: Gravelly ashy coarse sandy loam
Slope range: 0 to 15 percent

Spens soils
Depth: Very deep
Drainage class: Somewhat excessively drained
Saturated hydraulic conductivity (Ksat): Very high
Texture of surface layer: Very gravelly loamy coarse sand
Slope range: 15 to 65 percent

10. Klickson-Speigle-Xerolls, mass wasted-Rock outcrop (basalt parent material; frigid, mesic/xeric soil climate regime)

Moderately sloping to very steep basalt canyon escarpments, earthflows, and plateaus

Percentage of survey area: About 5 percent
Elevation: 1,650 to 2,700 feet
Parent material: Colluvium and residuum derived from basalt with a minor amount of loess and volcanic ash in the upper part in some areas
Potential native vegetation: Forest-shrub plant communities with Idaho fescue, bluebunch wheatgrass, mallow ninebark, creambush oceanspray, common snowberry, rose, Rocky Mountain Douglas-fir, and ponderosa pine
Minor components: Haploxerolls, channeled, and Northstar, Gibbs, Bobbitt, Scoap, and Wapal soils

Klickson soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Gravelly ashy silt loam
Slope range: 15 to 80 percent

Speigle soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Cobbly ashy loam
Slope range: 8 to 80 percent

Xerolls, mass wasted
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Silt loam
Slope range: 8 to 25 percent

Rock outcrop
Description of area: Basalt exposed at the surface that supports very sparse or no vegetation

Glaciofluvial Soils in Broad Valleys

Number of map units: 3
Percentage of survey area: About 20 percent

11. Kaniksu-Torboy-Stapaloop-Scrabblers (sandy and loamy outwash parent material; frigid/xeric soil climate regime)

Level to moderately steep treads and risers on outwash plains and terraces

Percentage of survey area: About 10 percent
Elevation: 1,800 to 2,900 feet
Parent material: Sandy glaciofluvial deposits with a thin mantle of loess and volcanic ash in the upper part
Potential native vegetation: Forest-shrub plant communities with pinegrass, bluebunch wheatgrass, mallow ninebark, creambush oceanspray, common snowberry, Saskatoon serviceberry, rose, grand fir, Rocky Mountain Douglas-fir, western larch, and ponderosa pine
Minor components: Stien, Bonner, Eloika, Fan Lake, Elmira, Wapal, and Clayton soils

Kaniksu soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): High
Texture of surface layer: Ashy sandy loam
Slope range: 0 to 25 percent

Torboy soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): High
Texture of surface layer: Fine gravelly ashy coarse sandy loam
Slope range: 0 to 15 percent

Stapaloop soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy fine sandy loam
Slope range: 0 to 25 percent

Scrabblers soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy fine sandy loam
Slope range: 0 to 15 percent

12. Urban land-Opportunity-Marble, disturbed (outwash parent material; mesic/xeric soil climate regime)

Level to moderately steep treads and risers on outwash plains and terraces

Percentage of survey area: About 9 percent
Elevation: 1,750 to 2,360 feet

Parent material: Glaciofluvial deposits mixed with loess and volcanic ash in the upper part
Potential native vegetation: Forest-grasses plant community with Idaho fescue, bluebunch wheatgrass, Saskatoon serviceberry, and ponderosa pine
Minor components: Water; Opportunity soils, disturbed; Marble soils; Springdale soils, disturbed; Northstar soils; Xerolls, mass wasted; and Garrison soils

Urban land
Description of areas: Land covered by pavement, buildings, storage tanks, bridges, and other impervious surfaces and structures

Opportunity soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Very gravelly ashy loam
Slope range: 0 to 15 percent

Marble soils, disturbed
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): High
Texture of surface layer: Loamy sand
Slope range: 0 to 30 percent

13. Green Bluff-Cedonia-Hunters (glaciolacustrine parent material; frigid, mesic/xeric soil climate regime)

Level to moderately steep treads and risers on outwash plains and relict glacial lake terraces

Percentage of survey area: About 1 percent
Elevation: 1,800 to 2,400 feet
Parent material: Glaciofluvial and calcareous glaciolacustrine deposits mixed with loess and volcanic ash in the upper part
Potential native vegetation: Forest-shrub plant communities with pinegrass, mallow ninebark, common snowberry, Rocky Mountain Douglas-fir, western larch, and ponderosa pine
Minor components: Peone, Saltese, Hoodoo, Kronquist, Fan Lake, and Clayton soils

Green Bluff soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy silt loam
Slope range: 0 to 15 percent

Cedonia soils
Depth: Very deep
Drainage class: Well drained
Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy silt loam
Slope range: 0 to 25 percent

Hunters soils
Depth: Very deep
Drainage class: Well drained

Saturated hydraulic conductivity (Ksat): Moderately high
Texture of surface layer: Ashy silt loam
Slope range: 0 to 8 percent

Detailed Soil Map Units

The map units delineated on the detailed soil maps in this survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this section, along with the maps, can be used to determine the suitability and potential of a unit for specific uses. They also can be used to plan the management needed for those uses.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Minor soil components that have properties similar to those of the dominant soil or soils in the map unit do not affect use and management. They are called noncontrasting, or similar, components. They typically are not mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. The contrasting components are mentioned in the map unit descriptions. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. The soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name

of a soil phase commonly indicates a feature that affects use or management. For example, Stutler gravelly ashy loam, 0 to 15 percent slopes, extremely bouldery surface, is a phase of the Stutler series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Rockly-Cocolalla complex, 0 to 8 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. McCrosket-Ardenvoir association, 15 to 35 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Endoquolls and Fluvaquents, 0 to 3 percent slopes, is an undifferentiated group in this survey area.

This survey includes *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Each detailed soil map unit is assigned to a major land resource area (MLRA) (USDA Agriculture Handbook 296). The MLRA assigned to each detailed soil map unit is given in this section. Some map units, such as Rock outcrop, Water, and other miscellaneous areas, may not be assigned to a single MLRA because the unit can occur in any MLRA.

Table 4 gives the acreage and proportionate extent of each map unit. Table 5 gives the percentage and slope of each component in the map units. Other tables give properties of the soils and the limitations, capabilities, and potentials for many uses. The Glossary defines many of the terms used in describing the soils or miscellaneous areas.

1001—Bridgeson ashy silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain Valleys
Elevation: 1,900 to 2,240 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 43 to 46 degrees F
Frost-free period: 80 to 110 days

Map Unit Composition

Bridgeson and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Bridgeson

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear

Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from glaciolacustrine sediment with an influence of volcanic ash in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 10 to 20 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Ap—0 to 12 inches; ashy silt loam
Bg1—12 to 20 inches; silt loam
Bg2—20 to 31 inches; clay loam
Bg3—31 to 40 inches; clay loam
Bg4—40 to 60 inches; clay loam

Dissimilar Minor Components

Hoodoo soils
Percentage of map unit: 10 percent
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Wolfeson soils
Percentage of map unit: 5 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Pywell soils
Percentage of map unit: 3 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Concave

Endoaquolls
Percentage of map unit: 2 percent
Landform: Drainageways, stream terraces, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

1010—Caldwell-Thatuna complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,600 feet
Mean annual precipitation: 17 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Caldwell and similar soils: 65 percent
Thatuna and similar soils: 15 percent
Dissimilar minor components: 20 percent

Characteristics of Caldwell

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from loess
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 21 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4w
Ecological site: LOAMY BOTTOM 16-24 PZ (R009XY402WA)

Typical profile
Ap1—0 to 4 inches; silt loam
Ap2—4 to 10 inches; silt loam
A1—10 to 16 inches; silt loam
A2—16 to 21 inches; silt loam
AB—21 to 30 inches; silt loam
Bw—30 to 40 inches; silt loam
Bt1—40 to 52 inches; silt loam
Bt2—52 to 60 inches; silt loam

Characteristics of Thatuna

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes

Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 36 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: COOL LOAMY 16-24 PZ (R009XY103WA)

Typical profile
A1—0 to 6 inches; silt loam
A2—6 to 12 inches; silt loam
AB—12 to 19 inches; silt loam
Bw—19 to 28 inches; silt loam
E—28 to 35 inches; silt loam
Btb/E—35 to 43 inches; silty clay loam
Btb1—43 to 52 inches; silty clay loam
Btb2—52 to 60 inches; silty clay loam

Dissimilar Minor Components

Cald soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Latah soils
Percentage of map unit: 5 percent
Landform: Low stream terraces, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, concave

Mondovi soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Endoaquolls
Percentage of map unit: 2 percent
Landform: Drainageways, flood plains

Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

1015—Caldwell silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,350 to 2,540 feet
Mean annual precipitation: 17 to 18 inches
Mean annual air temperature: 47 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Caldwell and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Caldwell

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from loess
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 21 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4w
Ecological site: LOAMY BOTTOM 16-24 PZ (R009XY402WA)

Typical profile
Ap1—0 to 4 inches; silt loam
Ap2—4 to 10 inches; silt loam
A1—10 to 16 inches; silt loam
A2—16 to 21 inches; silt loam
AB—21 to 30 inches; silt loam
Bw—30 to 40 inches; silt loam
Bt1—40 to 52 inches; silt loam
Bt2—52 to 60 inches; silt loam

Dissimilar Minor Components

Cald soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Endoaquolls
Percentage of map unit: 5 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Mondovi soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Narcisse soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

1020—Cocolalla ashy silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,020 to 2,450 feet
Mean annual precipitation: 15 to 20 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Cocolalla and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Cocolalla

Setting
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 11 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 13.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
A1—0 to 11 inches; ashy silt loam
A2—11 to 28 inches; ashy silt loam
Cg1—28 to 37 inches; ashy silt loam
Cg2—37 to 43 inches; ashy silt loam
Ab—43 to 54 inches; ashy silt loam
Cgb—54 to 60 inches; ashy silt loam

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 10 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Northstar soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Rockly soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Downslope shape: Linear
Across-slope shape: Linear

Saltese soils
Percentage of map unit: 2 percent
Landform: Flood plains, depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Water
Percentage of map unit: 2 percent

1021—Cocolalla-Hardesty complex, 0 to 3 percent slopes

Map Unit Setting

General landscape: Channeled scablands (fig. 1)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,950 to 2,400 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Cocolalla and similar soils: 50 percent
Hardesty and similar soils: 40 percent
Dissimilar minor components: 10 percent

Characteristics of Cocolalla

Setting
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained

Figure 1.—Typical area of Cocolalla-Hardesty complex, 0 to 3 percent slopes (nonforested area).

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 11 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 13.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
A1—0 to 11 inches; ashy silt loam
A2—11 to 28 inches; ashy silt loam
Cg1—28 to 37 inches; ashy silt loam
Cg2—37 to 43 inches; ashy silt loam
Ab—43 to 54 inches; ashy silt loam
Cgb—54 to 60 inches; ashy silt loam

Characteristics of Hardesty

Setting
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Rare (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 23 to 30 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2w
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
A1—0 to 4 inches; ashy silt loam
A2—4 to 11 inches; ashy silt loam
Bw1—11 to 23 inches; ashy silt loam
Bw2—23 to 32 inches; ashy silt loam
C1—32 to 39 inches; ashy very fine sandy loam
C2—39 to 60 inches; ashy loamy very fine sand

Dissimilar Minor Components

Rockly soils
Percentage of map unit: 4 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Saltese soils
Percentage of map unit: 3 percent
Landform: Flood plains, depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Northstar soils
Percentage of map unit: 1 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Speigle soils
Percentage of map unit: 1 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Water
Percentage of map unit: 1 percent

1030—Emdent ashy silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,110 to 2,420 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Emdent and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Emdent

Setting
Landform: Drainageways, flood plains, depressions
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 6 inches (see Water Features table)
Salinity (maximum): Very slightly saline (about 2 millimhos per centimeter)
Sodicity (maximum): Sodium adsorption ratio about 9
Available water capacity (entire profile): Very high (about 13.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Ecological site: ALKALI BOTTOM 16-24 PZ (R009XY401WA)

Typical profile
Aknpz—0 to 6 inches; ashy silt loam
ABknz—6 to 9 inches; ashy silt loam
Bknz—9 to 13 inches; ashy silt loam
C1—13 to 21 inches; ashy silt loam
C2—21 to 28 inches; ashy silt loam
C3—28 to 60 inches; ashy silt

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 10 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Cocolalla soils
Percentage of map unit: 5 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Rockly soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Saltese soils
Percentage of map unit: 2 percent
Landform: Flood plains, depressions, drainageways
Geomorphic position (three-dimensional): Treads

Downslope shape: Concave
Across-slope shape: Concave

1040—Hardesty ashy silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 16 to 25 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Hardesty and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Hardesty

Setting
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Rare (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 23 to 30 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2w
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
A1—0 to 4 inches; ashy silt loam
A2—4 to 11 inches; ashy silt loam
Bw1—11 to 23 inches; ashy silt loam
Bw2—23 to 32 inches; ashy silt loam
C1—32 to 39 inches; ashy very fine sandy loam
C2—39 to 60 inches; ashy loamy very fine sand

Dissimilar Minor Components

Narcisse soils
Percentage of map unit: 10 percent
Landform: Drainageways

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Peone soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave, linear
Across-slope shape: Linear, concave

Cocolalla soils
Percentage of map unit: 3 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Northstar soils
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

1050—Hoodoo-Kronquist complex, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,600 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 80 to 110 days

Map Unit Composition

Hoodoo and similar soils: 45 percent
Kronquist and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Hoodoo

Setting
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): At the soil surface to a depth of 18 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 18 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Ap—0 to 10 inches; ashy silt loam
Bg1—10 to 18 inches; ashy silt loam
Bg2—18 to 23 inches; ashy silt loam
Cg1—23 to 40 inches; ashy silt loam
Cg2—40 to 52 inches; ashy silt loam
Cg3—52 to 60 inches; ashy silt loam

Characteristics of Kronquist

Setting
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium mixed with volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 10 to 20 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
A—0 to 11 inches; ashy silt loam
BAt—11 to 27 inches; ashy silt loam
Btg1—27 to 40 inches; clay loam

Btg2—40 to 55 inches; clay loam
BCtg—55 to 60 inches; sandy clay loam

Dissimilar Minor Components

Colburn soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Pywell soils
Percentage of map unit: 5 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Concave

1070—Mondovi silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus, channeled scablands (fig. 2)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,700 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Figure 2.—Typical area of Mondovi silt loam, 0 to 8 percent slopes, under pasture.

Map Unit Composition

Mondovi and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Mondovi

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Mixed alluvium derived from loess and a minor amount of volcanic ash
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 44 to 60 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: LOAMY BOTTOM 16-24 PZ (R009XY402WA)

Typical profile
A1—0 to 17 inches; silt loam
A2—17 to 26 inches; ashy silt loam
A3—26 to 38 inches; ashy silt loam
A4—38 to 48 inches; ashy silt loam
A5—48 to 60 inches; ashy silt loam

Dissimilar Minor Components

Caldwell soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Athena soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear

Endoaquolls
Percentage of map unit: 5 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Narcisse soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

1080—Narcisse silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus, channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,500 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Narcisse and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Narcisse

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium mixed with loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 34 to 48 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: LOAMY BOTTOM 16-24 PZ (R009XY402WA)

Typical profile
A1—0 to 8 inches; silt loam
A2—8 to 14 inches; silt loam
A3—14 to 25 inches; loam
AB—25 to 34 inches; very fine sandy loam
Bw—34 to 48 inches; sandy loam
C—48 to 60 inches; sandy loam

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 10 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Kronquist soils
Percentage of map unit: 5 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

1081—Narcisse silt loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus, channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,500 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Narcisse and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Narcisse

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium mixed with loess and ash in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 34 to 48 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: LOAMY BOTTOM 16-24 PZ (R009XY402WA)

Typical profile
A1—0 to 8 inches; silt loam
A2—8 to 14 inches; silt loam
A3—14 to 25 inches; loam
AB—25 to 34 inches; very fine sandy loam
Bw—34 to 48 inches; sandy loam
C—48 to 60 inches; sandy loam

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 10 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Kronquist soils
Percentage of map unit: 5 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Opportunity soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

1090—Peone-Saltese complex, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys (fig. 3)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,540 to 2,500 feet
Mean annual precipitation: 18 to 25 inches

Figure 3.—Typical area of Peone-Saltese complex, 0 to 3 percent slopes, under reed canarygrass.

Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 80 to 130 days

Map Unit Composition

Peone and similar soils: 65 percent
Saltese and similar soils: 20 percent
Dissimilar minor components: 15 percent

Characteristics of Peone

Setting
Landform: Depressions, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave, linear
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium mixed with volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 10 to 20 inches (see Water Features table)

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
A—0 to 6 inches; ashy silt loam
Bw—6 to 11 inches; ashy silt loam
Bg1—11 to 30 inches; ashy silt loam
Bg2—30 to 42 inches; ashy very fine sandy loam
2Cg—42 to 60 inches; loamy coarse sand

Characteristics of Saltese

Setting
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Decomposed organic herbaceous material
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Very poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 6 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 26.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Oap—0 to 5 inches; muck
Oa—5 to 12 inches; muck
Oe—12 to 16 inches; mucky peat
Oa1—16 to 24 inches; muck
Oa2—24 to 40 inches; muck
Oa3—40 to 60 inches; muck

Dissimilar Minor Components

Endoaquolls
Percentage of map unit: 5 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Kronquist soils
Percentage of map unit: 5 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Peone soils, drained
Percentage of map unit: 4 percent
Landform: Depressions, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave, linear
Across-slope shape: Linear, concave

Water
Percentage of map unit: 1 percent

1091—Peone ashy silt loam, drained, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,670 to 2,350 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 80 to 110 days

Map Unit Composition

Peone, drained, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Peone, Drained

Setting
Landform: Depressions, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave, linear
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium mixed with volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 30 to 42 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
A—0 to 6 inches; ashy silt loam
Bw—6 to 11 inches; ashy silt loam
Bg1—11 to 30 inches; ashy silt loam
Bg2—30 to 42 inches; ashy very fine sandy loam
2Cg—42 to 60 inches; loamy coarse sand

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 10 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Kronquist soils
Percentage of map unit: 10 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Cedonia soils
Percentage of map unit: 5 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Linear

Endoaquolls
Percentage of map unit: 5 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

1092—Hoodoo ashy silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys (fig. 4)
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,700 to 2,500 feet
Mean annual precipitation: 20 to 32 inches
Mean annual air temperature: 42 to 44 degrees F
Frost-free period: 80 to 110 days

Map Unit Composition

Hoodoo and similar soils: 70 percent
Dissimilar minor components: 30 percent

Figure 4.—Typical area of Hoodoo ashy silt loam, 0 to 3 percent slopes, under recently cut hay.

Characteristics of Hoodoo

Setting
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): At the soil surface to a depth of 18 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 18 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Ap—0 to 10 inches; ashy silt loam
Bg1—10 to 18 inches; ashy silt loam
Bg2—18 to 23 inches; ashy silt loam
Cg1—23 to 40 inches; ashy silt loam
Cg2—40 to 52 inches; ashy silt loam
Cg3—52 to 60 inches; ashy silt loam

Dissimilar Minor Components

Bellslake soils
Percentage of map unit: 14 percent
Landform: Low stream terraces, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Concave

Kronquist soils
Percentage of map unit: 10 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Pywell soils
Percentage of map unit: 5 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Concave

Water
Percentage of map unit: 1 percent

1120—Lovell ashy silt loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,300 to 2,800 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Lovell and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Lovell

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Mixed alluvium with an influence of loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 19 to 24 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: SEMI-WET MEADOW 15+ PZ (R044XY602WA)

Typical profile
Ap1—0 to 2 inches; ashy silt loam
Ap2—2 to 8 inches; ashy silt loam
BE—8 to 19 inches; ashy silt loam
E—19 to 24 inches; silt loam
Bt/E—24 to 30 inches; silty clay loam
Bt1—30 to 42 inches; silty clay loam
Bt2—42 to 52 inches; silty clay loam
Bt3—52 to 61 inches; silty clay loam

Dissimilar Minor Components

Colburn soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Santa soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Convex

Freeman soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear

Kronquist soils
Percentage of map unit: 2 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

1130—Colburn ashy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,860 to 2,400 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Colburn and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Colburn

Setting
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Mixed alluvium with an influence of loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 20 to 30 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: SEMI-WET MEADOW 15+ PZ (R044XY602WA)

Typical profile
Oe—0 to 1 inch; moderately decomposed plant material
A—1 to 5 inches; ashy loam
Bw1—5 to 12 inches; ashy fine sandy loam
Bw2—12 to 21 inches; ashy fine sandy loam
Bw3—21 to 32 inches; sandy loam
Cg1—32 to 43 inches; loamy coarse sand

Cg2—43 to 55 inches; extremely gravelly loamy coarse sand
Cg3—55 to 60 inches; loamy coarse sand

Dissimilar Minor Components

Hoodoo soils
Percentage of map unit: 10 percent
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Eloika soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Wolfeson soils
Percentage of map unit: 5 percent
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, concave

1200—Endoaquolls and Fluvaquents, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,540 to 2,400 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Endoaquolls and similar soils: 40 percent
Fluvaquents and similar soils: 40 percent
Dissimilar minor components: 20 percent

Characteristics of Endoaquolls

Setting
Landform: Drainageways, stream terraces, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from mixed sources
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): At the soil surface to a depth of 5 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
Ap—0 to 5 inches; loam
A—5 to 11 inches; loam
Bg1—11 to 19 inches; sandy loam
Bg2—19 to 28 inches; fine sandy loam
Cg—28 to 45 inches; fine sandy loam
C—45 to 60 inches; stratified sandy loam to fine sandy loam

Characteristics of Fluvaquents

Setting
Landform: Low stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from mixed sources
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Very poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): At the soil surface to a depth of 4 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
A—0 to 1 inch; sandy loam
C—1 to 4 inches; sand
Cg1—4 to 12 inches; sandy loam
Cg2—12 to 21 inches; sandy loam
Cg3—21 to 31 inches; sandy loam
Cg4—31 to 40 inches; stratified fine sandy loam to coarse sand
Cg5—40 to 60 inches; stratified coarse sand to sandy loam

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 10 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Saltese soils
Percentage of map unit: 5 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Water
Percentage of map unit: 5 percent

1203—Haploxerolls ashy silt loam, channeled, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,540 to 2,400 feet
Mean annual precipitation: 17 to 21 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Haploxerolls, channeled, and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Haploxerolls, Channeled

Setting
Landform: Stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Mixed alluvium
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 40 to 50 inches (see Water Features table)
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: LOAMY BOTTOM 16-24 PZ (R009XY402WA)

Typical profile
A1—0 to 4 inches; ashy silt loam
A2—4 to 14 inches; ashy silt loam
A3—14 to 30 inches; ashy silt loam
A4—30 to 40 inches; silt loam
Ab1—40 to 57 inches; silt loam
Ab2—57 to 60 inches; fine sandy loam

Dissimilar Minor Components

Mondovi soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Endoaquolls
Percentage of map unit: 5 percent
Landform: Drainageways, stream terraces, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Riverwash
Percentage of map unit: 5 percent

Water
Percentage of map unit: 5 percent

1300—Aquepts ashy loam, frigid, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 2,600 feet
Mean annual precipitation: 25 to 30 inches
Mean annual air temperature: 43 to 46 degrees F
Frost-free period: 80 to 110 days

Map Unit Composition

Aquepts, frigid, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Aquepts, Frigid

Setting
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear, concave
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium with loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained or very poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 4 to 12 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Land capability subclass (irrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
A1—0 to 4 inches; ashy loam
A2—4 to 12 inches; ashy loam
AB—12 to 17 inches; ashy loam
2Bw—17 to 27 inches; sandy loam
2C1—27 to 40 inches; loamy sand
2C2—40 to 50 inches; gravelly loamy coarse sand
2C3—50 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Lovell soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Colburn soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Freeman soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Kaniksu soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Kronquist soils
Percentage of map unit: 2 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Pywell soils
Percentage of map unit: 2 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Concave

Water
Percentage of map unit: 2 percent

2040—Klickson gravelly ashy silt loam, mass wasted, 15 to 30 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Klickson, mass wasted, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Klickson, Mass Wasted

Setting
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium derived from basalt
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A1—3 to 8 inches; gravelly ashy silt loam
A2—8 to 12 inches; gravelly ashy loam
BA—12 to 17 inches; gravelly ashy loam
Bt1—17 to 28 inches; very cobbly loam
Bt2—28 to 35 inches; very stony loam
Bt3—35 to 50 inches; extremely stony loam
BC—50 to 60 inches; extremely cobbly loam

Dissimilar Minor Components

Blinn soils, stony surface
Percentage of map unit: 10 percent
Landform: Basalt plateaus, basalt escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Green Bluff soils
Percentage of map unit: 5 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex

Rock outcrop
Percentage of map unit: 5 percent

Xerolls, frigid, mass wasted
Percentage of map unit: 5 percent
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Lacy soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Speigle soils
Percentage of map unit: 2 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

2041—Klickson gravelly ashy silt loam, 30 to 60 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus (fig. 5)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,170 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Klickson and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Klickson

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes

Figure 5.—Typical area of Klickson gravelly ashy silt loam, 30 to 60 percent slopes.

Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A1—3 to 8 inches; gravelly ashy silt loam
A2—8 to 12 inches; gravelly ashy loam
BA—12 to 17 inches; gravelly ashy loam
Bt1—17 to 28 inches; very cobbly loam
Bt2—28 to 35 inches; very stony loam
Bt3—35 to 50 inches; extremely stony loam
BC—50 to 60 inches; extremely cobbly loam

Dissimilar Minor Components

Lacy soils
Percentage of map unit: 9 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Blinn soils, stony surface
Percentage of map unit: 8 percent
Landform: Basalt plateaus, basalt escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

Xerolls, frigid, mass wasted
Percentage of map unit: 3 percent
Landform: Earthflows

Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

2042—Rock outcrop-Klickson-Speigle complex, 60 to 80 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,400 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Rock outcrop: 30 percent
Klickson and similar soils: 25 percent
Speigle and similar soils: 25 percent
Dissimilar minor components: 20 percent

Characteristics of Rock Outcrop

Slope range: 60 to 80 percent
Land capability subclass (nonirrigated): 8

Characteristics of Klickson

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 60 to 80 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A1—3 to 8 inches; gravelly ashy silt loam
A2—8 to 12 inches; gravelly ashy loam
BA—12 to 17 inches; gravelly ashy loam
Bt1—17 to 28 inches; very cobbly loam
Bt2—28 to 35 inches; very stony loam
Bt3—35 to 50 inches; extremely stony loam
BC—50 to 60 inches; extremely cobbly loam

Characteristics of Speigle

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): West
Aspect (range): East to north (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium derived from basalt
Slope range: 60 to 80 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Rubble land
Percentage of map unit: 14 percent

Lacy soils
Percentage of map unit: 6 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes

Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

2043—Klickson-Speigle complex, mass wasted, 15 to 30 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,650 to 2,500 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Klickson, mass wasted, and similar soils: 35 percent
Speigle, mass wasted, and similar soils: 35 percent
Dissimilar minor components: 30 percent

Characteristics of Klickson, Mass Wasted

Setting
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium derived from basalt
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A1—3 to 8 inches; gravelly ashy silt loam
A2—8 to 12 inches; gravelly ashy loam
BA—12 to 17 inches; gravelly ashy loam

Bt1—17 to 28 inches; very cobbly loam
Bt2—28 to 35 inches; very stony loam
Bt3—35 to 50 inches; extremely stony loam
BC—50 to 60 inches; extremely cobbly loam

Characteristics of Speigle, Mass Wasted

Setting
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Northeast
Aspect (range): West to south (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium derived from basalt
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Green Bluff soils
Percentage of map unit: 10 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex

Klickson soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

Spens soils
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Xerolls, frigid, mass wasted
Percentage of map unit: 3 percent
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Fan Lake soils
Percentage of map unit: 2 percent
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Lacy soils
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

2044—Klickson-Speigle complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,600 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Klickson and similar soils: 40 percent
Speigle and similar soils: 40 percent
Dissimilar minor components: 20 percent

Characteristics of Klickson

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Aspect (representative): North
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A1—3 to 8 inches; gravelly ashy silt loam
A2—8 to 12 inches; gravelly ashy loam
BA—12 to 17 inches; gravelly ashy loam
Bt1—17 to 28 inches; very cobbly loam
Bt2—28 to 35 inches; very stony loam
Bt3—35 to 50 inches; extremely stony loam
BC—50 to 60 inches; extremely cobbly loam

Characteristics of Speigle

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): West
Aspect (range): East to north (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Green Bluff soils
Percentage of map unit: 8 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex

Lacy soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Spens soils
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

Rubble land
Percentage of map unit: 2 percent

2045—Marble-Speigle complex, mass wasted, 8 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,700 to 2,400 feet
Mean annual precipitation: 17 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Marble, mass wasted, and similar soils: 35 percent
Speigle, mass wasted, and similar soils: 30 percent
Dissimilar minor components: 35 percent

Characteristics of Marble, Mass Wasted

Setting
Landform: Earthflows, outwash plains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 8 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Characteristics of Speigle, Mass Wasted

Setting
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium derived from basalt
Slope range: 8 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Spens soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Lakespring soils
Percentage of map unit: 11 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Klickson soils, mass wasted
Percentage of map unit: 5 percent
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

2046—Klickson-Speigle-Rock outcrop complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,650 to 2,600 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Klickson and similar soils: 35 percent
Speigle and similar soils: 35 percent
Rock outcrop: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Klickson

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A1—3 to 8 inches; gravelly ashy silt loam
A2—8 to 12 inches; gravelly ashy loam
BA—12 to 17 inches; gravelly ashy loam
Bt1—17 to 28 inches; very cobbly loam
Bt2—28 to 35 inches; very stony loam
Bt3—35 to 50 inches; extremely stony loam
BC—50 to 60 inches; extremely cobbly loam

Characteristics of Speigle

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Characteristics of Rock Outcrop

Slope range: 30 to 60 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Lacy soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Spens soils
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Rubble land
Percentage of map unit: 2 percent

2050—Speigle cobbly ashy loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,950 to 2,550 feet
Mean annual precipitation: 16 to 21 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Speigle and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Speigle

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Spens soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Bobbitt soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Lacy soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes

Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 1 percent

2051—Speigle cobbly ashy loam, 30 to 60 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,500 feet
Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Speigle and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Speigle

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Spens soils
Percentage of map unit: 12 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Lacy soils
Percentage of map unit: 10 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Bobbitt soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Rubble land
Percentage of map unit: 2 percent

Rock outcrop
Percentage of map unit: 1 percent

2052—Brincken, moist-Speigle complex, mass wasted, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,500 feet
Mean annual precipitation: 18 to 21 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Brincken, moist, mass wasted, and similar soils: 50 percent
Speigle, mass wasted, and similar soils: 20 percent
Dissimilar minor components: 30 percent

Characteristics of Brincken, Moist, Mass Wasted

Setting
Landform: Earthflows, outwash terraces
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Interfluves, risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam
Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Characteristics of Speigle, Mass Wasted

Setting
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): West to south (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium derived from basalt
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Gibbs soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

Lakespring soils
Percentage of map unit: 10 percent
Landform: Outwash plains, outwash terraces
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes, risers
Downslope shape: Linear
Across-slope shape: Convex

Klickson soils, mass wasted
Percentage of map unit: 5 percent
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Narcisse soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

2053—Speigle-Rock outcrop complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,860 to 2,600 feet
Mean annual precipitation: 16 to 23 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Speigle and similar soils: 50 percent
Rock outcrop: 15 percent
Dissimilar minor components: 35 percent

Characteristics of Speigle

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Characteristics of Rock Outcrop

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Bobbitt soils
Percentage of map unit: 10 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Northstar soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Lacy soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Rubble land
Percentage of map unit: 5 percent

Spens soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

2054—Speigle-Rubble land-Rock outcrop complex, 30 to 90 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,750 to 2,550 feet
Mean annual precipitation: 16 to 21 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Speigle and similar soils: 40 percent
Rubble land: 30 percent
Rock outcrop: 15 percent
Dissimilar minor components: 15 percent

Characteristics of Speigle

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 30 to 80 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Characteristics of Rubble Land

Slope range: 30 to 60 percent
Land capability subclass (nonirrigated): 8
Description of areas: Fragmental material

Characteristics of Rock Outcrop

Slope range: 60 to 90 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Klickson soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Lacy soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Spens soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers

Downslope shape: Linear
Across-slope shape: Convex

2070—Bobbitt-Lacy complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,700 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Bobbitt and similar soils: 50 percent
Lacy and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Bobbitt

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; cobbly ashy loam
AB—6 to 16 inches; very cobbly ashy loam
Bt—16 to 33 inches; extremely cobbly loam
BC—33 to 38 inches; extremely cobbly clay loam
R—38 to 48 inches; bedrock

Characteristics of Lacy

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 2 inches; cobbly loam
AB—2 to 6 inches; extremely cobbly loam
Bt—6 to 10 inches; extremely cobbly loam
BC—10 to 16 inches; extremely stony loam
R—16 to 26 inches; bedrock

Dissimilar Minor Components

Gibbs soils
Percentage of map unit: 12 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

Hardesty soils
Percentage of map unit: 3 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Lakespring soils
Percentage of map unit: 3 percent
Landform: Outwash plains, outwash terraces

Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes, risers
Downslope shape: Linear
Across-slope shape: Convex

Stutler soils
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

2071—Bobbitt-Speigle complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,950 to 2,700 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Bobbitt and similar soils: 50 percent
Speigle and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Bobbitt

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 8 to 25 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; cobbly ashy loam
AB—6 to 16 inches; very cobbly ashy loam
Bt—16 to 33 inches; extremely cobbly loam
BC—33 to 38 inches; extremely cobbly clay loam
R—38 to 48 inches; bedrock

Characteristics of Speigle

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 6 inches; cobbly ashy loam
AB—6 to 17 inches; very gravelly ashy loam
Bt1—17 to 23 inches; very cobbly loam
Bt2—23 to 35 inches; extremely gravelly loam
BC—35 to 44 inches; extremely cobbly sandy loam
C—44 to 65 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Gibbs soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Lacy soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus

Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

2080—Gibbs ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,980 to 2,600 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Gibbs and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Gibbs

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from basalt with a minor amount of glaciofluvial deposits, loess, and volcanic ash in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 5 inches; ashy silt loam
AB—5 to 13 inches; ashy silt loam
Bt1—13 to 20 inches; silty clay loam
Bt2—20 to 31 inches; silty clay loam

BCt—31 to 35 inches; very gravelly silt loam
2R—35 to 45 inches; bedrock

Dissimilar Minor Components

Bobbitt soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Driscoll soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Lacy soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 3 percent

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

2081—Gibbs ashy silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,600 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Gibbs and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Gibbs

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, backslopes

Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from basalt with a minor amount of glaciofluvial deposits, loess, and volcanic ash in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 5 inches; ashy silt loam
AB—5 to 13 inches; ashy silt loam
Bt1—13 to 20 inches; silty clay loam
Bt2—20 to 31 inches; silty clay loam
BCt—31 to 35 inches; very gravelly silt loam
2R—35 to 45 inches; bedrock

Dissimilar Minor Components

Bobbitt soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Brincken soils, moist
Percentage of map unit: 10 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Driscoll soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Speigle soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 3 percent

Lacy soils
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

2085—Tucannon ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,600 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Tucannon and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Tucannon

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 5 inches; ashy silt loam
AB—5 to 10 inches; ashy silt loam
Bw—10 to 21 inches; gravelly ashy silt loam
C—21 to 29 inches; gravelly silt loam
R—29 to 39 inches; bedrock

Dissimilar Minor Components

Cheney soils
Percentage of map unit: 7 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Cocolalla soils
Percentage of map unit: 5 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Rockly soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, dry
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 3 percent

2090—Rockly-Tucannon complex, 15 to 35 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,500 feet
Mean annual precipitation: 15 to 18 inches

Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Rockly and similar soils: 55 percent
Tucannon and similar soils: 25 percent
Dissimilar minor components: 20 percent

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 15 to 35 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Characteristics of Tucannon

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 15 to 35 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 5 inches; ashy silt loam
AB—5 to 10 inches; ashy silt loam
Bw—10 to 21 inches; gravelly ashy silt loam
C—21 to 29 inches; gravelly silt loam
R—29 to 39 inches; bedrock

Dissimilar Minor Components

Rock outcrop
Percentage of map unit: 5 percent

Rubble land
Percentage of map unit: 5 percent

Speigle soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, dry
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

2160—Scoap-Rubble land-Rock outcrop complex, 30 to 90 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Scoap and similar soils: 40 percent
Rubble land: 25 percent
Rock outcrop: 15 percent
Dissimilar minor components: 20 percent

Characteristics of Scoap

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Outwash deposits mixed with loess and a minor amount of volcanic ash in the upper part
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 7 inches; gravelly ashy sandy loam
A2—7 to 17 inches; very gravelly ashy sandy loam
Bw—17 to 30 inches; very gravelly sandy loam
BC—30 to 47 inches; very gravelly sandy loam
C—47 to 60 inches; gravelly loamy sand

Characteristics of Rubble Land

Slope range: 30 to 75 percent
Land capability subclass (nonirrigated): 8
Description of areas: Fragmental material

Characteristics of Rock Outcrop

Slope range: 30 to 90 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Northstar soils
Percentage of map unit: 10 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Wapal soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3010—Alecanyon cobbly ashy coarse sandy loam, 15 to 40 percent slopes, very stony surface

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,400 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Alecanyon, very stony surface, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Alecanyon, Very Stony Surface

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with an influence of loess and volcanic ash in the upper part
Slope range: 15 to 40 percent
Surface area covered with stones: 0.1 to 3.0 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: STONY 16-24 PZ (R009XY202WA)

Typical profile
A—0 to 7 inches; cobbly ashy coarse sandy loam
BA—7 to 11 inches; very cobbly ashy coarse sandy loam
BC—11 to 16 inches; extremely cobbly loamy coarse sand
Bq—16 to 39 inches; extremely cobbly coarse sand
C—39 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Cheney soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

3015—Seaboldt ashy loam, dry, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,450 feet
Mean annual precipitation: 16 to 17 inches
Mean annual air temperature: 50 to 52 degrees F
Frost-free period: 130 to 150 days

Map Unit Composition

Seaboldt, dry, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Seaboldt, Dry

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Cheney soils
Percentage of map unit: 6 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, dry
Percentage of map unit: 6 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Brincken soils, moist
Percentage of map unit: 3 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Narcisse soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

3020—Bong ashy sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,450 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Bong and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Bong

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 11 inches; ashy sandy loam
Bw—11 to 22 inches; sandy loam
BC—22 to 28 inches; gravelly coarse sandy loam
C—28 to 60 inches; coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils, dry
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marblespring soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3022—Bong ashy sandy loam, moist, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,600 to 2,400 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Bong, moist, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Bong, Moist

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 11 inches; ashy sandy loam
Bw—11 to 22 inches; sandy loam
BC—22 to 28 inches; gravelly coarse sandy loam
C—28 to 60 inches; coarse sand

Dissimilar Minor Components

Phoebe soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hagen soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Marblespring soils
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 2 percent
Landform: Depressions, drainageways
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

3024—Phoebe-Bong, moist, complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,500 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Phoebe and similar soils: 45 percent
Bong, moist, and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Phoebe

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part

Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Characteristics of Bong, Moist

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 11 inches; ashy sandy loam
Bw—11 to 22 inches; sandy loam
BC—22 to 28 inches; gravelly coarse sandy loam
C—28 to 60 inches; coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

3025—Bong ashy sandy loam, moist, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,050 to 2,360 feet
Mean annual precipitation: 18 to 21 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Bong, moist, and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Bong, Moist

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): Northwest to south (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 11 inches; ashy sandy loam
Bw—11 to 22 inches; sandy loam
BC—22 to 28 inches; gravelly coarse sandy loam
C—28 to 60 inches; coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 14 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Spens soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Hardesty soils
Percentage of map unit: 1 percent
Landform: Drainageways
Downslope shape: Linear
Across-slope shape: Linear

3026—Phoebe, dry-Bong complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,500 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Phoebe, dry, and similar soils: 45 percent
Bong and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Phoebe, Dry

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear

Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Characteristics of Bong

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 11 inches; ashy sandy loam
Bw—11 to 22 inches; sandy loam
BC—22 to 28 inches; gravelly coarse sandy loam
C—28 to 60 inches; coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

3030—Bonner ashy fine sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 22 to 26 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Bonner and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Bonner

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thick mantle of volcanic ash mixed with loess over outwash
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 5 inches; ashy fine sandy loam
Bw1—5 to 9 inches; ashy fine sandy loam
Bw2—9 to 19 inches; ashy fine sandy loam
2BC—19 to 27 inches; very gravelly loamy sand
2C—27 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Stien soils, very stony surface
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Wapal soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Eloika soils
Percentage of map unit: 4 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 1 percent
Landform: Drainageways
Downslope shape: Linear
Across-slope shape: Linear

3031—Bonner-Wapal complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,400 feet

Mean annual precipitation: 22 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Bonner and similar soils: 60 percent
Wapal and similar soils: 20 percent
Dissimilar minor components: 20 percent

Characteristics of Bonner

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Northeast
Aspect (range): West to southeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash mixed with loess over outwash
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 5 inches; ashy fine sandy loam
Bw1—5 to 9 inches; ashy fine sandy loam
Bw2—9 to 19 inches; ashy fine sandy loam
2BC—19 to 27 inches; very gravelly loamy sand
2C—27 to 60 inches; extremely gravelly coarse sand

Characteristics of Wapal

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part

Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
A—2 to 6 inches; gravelly ashy coarse sandy loam
Bw1—6 to 13 inches; gravelly ashy coarse sandy loam
Bw2—13 to 17 inches; very gravelly coarse sandy loam
BC—17 to 21 inches; very gravelly loamy coarse sand
C—21 to 30 inches; extremely gravelly coarse sand
Bq1—30 to 36 inches; very gravelly coarse sand
Bq2—36 to 62 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Stien soils, very stony surface
Percentage of map unit: 7 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Eloika soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3039—Alecanyon-Rockly complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands (fig. 6)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,980 to 2,500 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Figure 6.—Typical area of Alecanyon-Rockly complex, 0 to 15 percent slopes. The Rockly soil is in foreground under rangeland ecological site R009XY301WA. Stiff sagebrush (*Artemisia rigida*) is the dominant shrub on the Rockly soil. The Alecanyon soil is between convex areas of Rockly soils and supports rangeland ecological site R009XY202WA.

Map Unit Composition

Alecanyon and similar soils: 40 percent
Rockly and similar soils: 30 percent
Dissimilar minor components: 30 percent

Characteristics of Alecanyon

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 0 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Ecological site: STONY 16-24 PZ (R009XY202WA)

Typical profile
A—0 to 7 inches; gravelly ashy coarse sandy loam
BA—7 to 11 inches; very gravelly ashy coarse sandy loam
BC—11 to 16 inches; extremely cobbly loamy coarse sand
Bq—16 to 39 inches; extremely gravelly coarse sand
C—39 to 60 inches; very gravelly coarse sand

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Dissimilar Minor Components

Cheney soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Deno soils
Percentage of map unit: 10 percent
Landform: Mounds on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 7 percent

Fourmound soils
Percentage of map unit: 2 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Cocolalla soils
Percentage of map unit: 1 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

3040—Cheney-Alecanyon complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,980 to 2,550 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Cheney and similar soils: 50 percent
Alecanyon and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Cheney

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 10 inches; ashy silt loam
A—10 to 14 inches; ashy silt loam
Bw—14 to 22 inches; ashy silt loam
Bt—22 to 28 inches; ashy silt loam
2C1—28 to 32 inches; very gravelly sandy loam
2C2—32 to 60 inches; extremely gravelly coarse sand

Characteristics of Alecanyon

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Ecological site: STONY 16-24 PZ (R009XY202WA)

Typical profile
A—0 to 7 inches; gravelly ashy coarse sandy loam
BA—7 to 11 inches; very gravelly ashy coarse sandy loam
BC—11 to 16 inches; extremely cobbly loamy coarse sand
Bq—16 to 39 inches; extremely gravelly coarse sand
C—39 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Uhlig soils, dry
Percentage of map unit: 9 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

Rockly soils
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits

Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3041—Alecanyon, very stony-Cheney complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,980 to 2,500 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Alecanyon, very stony surface, and similar soils: 65 percent
Cheney and similar soils: 20 percent
Dissimilar minor components: 15 percent

Characteristics of Alecanyon, Very Stony Surface

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 0 to 8 percent
Surface area covered with stones: 0.1 to 3.0 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: STONY 16-24 PZ (R009XY202WA)

Typical profile
A—0 to 7 inches; cobbly ashy coarse sandy loam
BA—7 to 11 inches; very cobbly ashy coarse sandy loam
BC—11 to 16 inches; extremely cobbly loamy coarse sand
Bq—16 to 39 inches; extremely cobbly coarse sand
C—39 to 60 inches; very gravelly coarse sand

Characteristics of Cheney

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 10 inches; ashy silt loam
A—10 to 14 inches; ashy silt loam
Bw—14 to 22 inches; ashy silt loam
Bt—22 to 28 inches; ashy silt loam
2C1—28 to 32 inches; very gravelly sandy loam
2C2—32 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Uhlig soils, dry
Percentage of map unit: 7 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rockly soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves

Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 3 percent

3042—Alecanyon, very stony-Cheney complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,980 to 2,550 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Alecanyon, very stony surface, and similar soils: 65 percent
Cheney and similar soils: 25 percent
Dissimilar minor components: 10 percent

Characteristics of Alecanyon, Very Stony Surface

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 8 to 15 percent
Surface area covered with stones: 0.1 to 3.0 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: STONY 16-24 PZ (R009XY202WA)

Typical profile
A—0 to 7 inches; cobbly ashy coarse sandy loam
BA—7 to 11 inches; very cobbly ashy coarse sandy loam
BC—11 to 16 inches; extremely cobbly loamy coarse sand

Bq—16 to 39 inches; extremely cobbly coarse sand
C—39 to 60 inches; very gravelly coarse sand

Characteristics of Cheney

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 10 inches; ashy silt loam
A—10 to 14 inches; ashy silt loam
Bw—14 to 22 inches; ashy silt loam
Bt—22 to 28 inches; ashy silt loam
2C1—28 to 32 inches; very gravelly sandy loam
2C2—32 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Athena soils
Percentage of map unit: 4 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

Tucannon soils
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, dry
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3044—Cheney ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,550 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Cheney and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Cheney

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 10 inches; ashy silt loam
A—10 to 14 inches; ashy silt loam
Bw—14 to 22 inches; ashy silt loam
Bt—22 to 28 inches; ashy silt loam

2C1—28 to 32 inches; very gravelly sandy loam
2C2—32 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Uhlig soils, dry
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Alecanyon soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Cocolalla soils
Percentage of map unit: 3 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 3 percent

Seaboldt soils, dry
Percentage of map unit: 2 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3045—Rockly-Deno complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands (fig. 7)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,820 to 2,500 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Rockly and similar soils: 60 percent
Deno and similar soils: 25 percent
Dissimilar minor components: 15 percent

Figure 7.—Typical area of Rockly-Deno complex, 0 to 15 percent slopes. The Rockly soil is in foreground under rangeland ecological site R009XY301WA. Stiff sagebrush (*Artemisia rigida*) is the dominant shrub on the Rockly soil. The Deno soil is on mounds and supports rangeland ecological site R009XY102WA.

Characteristics of Rockly

Setting

Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities

Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Characteristics of Deno

Setting
Landform: Mounds on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over residuum derived from basalt or glaciofluvial deposits
Slope range: 0 to 15 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
A1—0 to 4 inches; ashy silt loam
A2—4 to 14 inches; ashy loam
A3—14 to 28 inches; ashy loam
Bw1—28 to 40 inches; loam
Bw2—40 to 48 inches; coarse sandy loam
2R—48 to 58 inches; bedrock

Dissimilar Minor Components

Cocolalla soils
Percentage of map unit: 5 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 5 percent

Cheney soils
Percentage of map unit: 3 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Seaboldt soils, dry
Percentage of map unit: 2 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3046—Cheney-Seaboldt, dry, complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,550 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Cheney and similar soils: 60 percent
Seaboldt, dry, and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Cheney

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 10 inches; ashy silt loam
A—10 to 14 inches; ashy silt loam
Bw—14 to 22 inches; ashy silt loam
Bt—22 to 28 inches; ashy silt loam
2C1—28 to 32 inches; very gravelly sandy loam
2C2—32 to 60 inches; extremely gravelly coarse sand

Characteristics of Seaboldt, Dry

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Rock outcrop
Percentage of map unit: 5 percent

Rockly soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, dry
Percentage of map unit: 3 percent
Landform: Outwash terraces

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Cocolalla soils
Percentage of map unit: 2 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Fourmound soils
Percentage of map unit: 2 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

3047—Rockly-Rock outcrop-Deno complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,980 to 2,350 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Rockly and similar soils: 45 percent
Rock outcrop: 20 percent
Deno and similar soils: 15 percent
Dissimilar minor components: 20 percent

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 0 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Deno

Setting
Landform: Mounds on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over residuum derived from basalt or glaciofluvial deposits
Slope range: 0 to 15 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
A1—0 to 4 inches; ashy silt loam
A2—4 to 14 inches; ashy loam
A3—14 to 28 inches; ashy loam
Bw1—28 to 40 inches; loam
Bw2—40 to 48 inches; coarse sandy loam
2R—48 to 58 inches; bedrock

Dissimilar Minor Components

Rock outcrop, cliffs
Percentage of map unit: 8 percent

Cocolalla soils
Percentage of map unit: 3 percent
Landform: Drainageways, depressions

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Hardesty soils
Percentage of map unit: 3 percent
Landform: Depressions, drainageways
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Northstar soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Speigle soils
Percentage of map unit: 3 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

3048—Rockly-Hardesty complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,950 to 2,450 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Rockly and similar soils: 50 percent
Hardesty and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Characteristics of Hardesty

Setting
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Rare (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 23 to 30 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2w
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
A1—0 to 4 inches; ashy silt loam
A2—4 to 11 inches; ashy silt loam
Bw1—11 to 23 inches; ashy silt loam
Bw2—23 to 32 inches; ashy silt loam
C1—32 to 39 inches; ashy very fine sandy loam
C2—39 to 60 inches; ashy loamy very fine sand

Dissimilar Minor Components

Fourmound soils
Percentage of map unit: 10 percent
Landform: Mounds on basalt plateaus

Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Cocolalla soils
Percentage of map unit: 5 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 5 percent

Northstar soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Water
Percentage of map unit: 2 percent

3049—Rockly-Rock outcrop-Cocolalla complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,950 to 2,340 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Rockly and similar soils: 45 percent
Rock outcrop: 20 percent
Cocolalla and similar soils: 15 percent
Dissimilar minor components: 20 percent

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 0 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Cocolalla

Setting
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 2 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 11 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 13.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
A1—0 to 11 inches; ashy silt loam
A2—11 to 28 inches; ashy silt loam
Cg1—28 to 37 inches; ashy silt loam
Cg2—37 to 43 inches; ashy silt loam
Ab—43 to 54 inches; ashy silt loam
Cgb—54 to 60 inches; ashy silt loam

Dissimilar Minor Components

Rock outcrop, cliffs
Percentage of map unit: 8 percent

Deno soils
Percentage of map unit: 4 percent
Landform: Mounds on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Northstar soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Speigle soils
Percentage of map unit: 3 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Water
Percentage of map unit: 2 percent

3054—Clayton ashy fine sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,800 to 2,400 feet
Mean annual precipitation: 17 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Clayton and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Clayton

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 5 inches; ashy fine sandy loam
Ap2—5 to 8 inches; ashy fine sandy loam
E and Bt1—8 to 29 inches; sandy loam
E and Bt2—29 to 42 inches; sandy loam
E and Bt3—42 to 52 inches; loamy sand
C—52 to 62 inches; loamy fine sand

Dissimilar Minor Components

Clayton soils, silty subsoil
Percentage of map unit: 10 percent
Landform: Terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hagen soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Phoebe soils, dry
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marblespring soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3055—Clayton-Hagen complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,800 to 2,400 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Clayton and similar soils: 55 percent
Hagen and similar soils: 25 percent
Dissimilar minor components: 20 percent

Characteristics of Clayton

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 5 inches; ashy fine sandy loam
Ap2—5 to 8 inches; ashy fine sandy loam
E and Bt1—8 to 29 inches; sandy loam
E and Bt2—29 to 42 inches; sandy loam
E and Bt3—42 to 52 inches; loamy sand
C—52 to 62 inches; loamy fine sand

Characteristics of Hagen

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear

Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): Southeast to northwest (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 7 inches; ashy sandy loam
Bw—7 to 15 inches; ashy sandy loam
E and Bt1—15 to 29 inches; loamy sand
E and Bt2—29 to 52 inches; loamy sand
C—52 to 60 inches; sand

Dissimilar Minor Components

Clayton soils, silty subsoil
Percentage of map unit: 10 percent
Landform: Terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Endoaquolls
Percentage of map unit: 5 percent
Landform: Drainageways, stream terraces, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marblespring soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3056—Hagen ashy sandy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies

Elevation: 1,800 to 2,400 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Hagen and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Hagen

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 7 inches; ashy sandy loam
Bw—7 to 15 inches; ashy sandy loam
E and Bt1—15 to 29 inches; loamy sand
E and Bt2—29 to 52 inches; loamy sand
C—52 to 60 inches; sand

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

Clayton soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marblespring soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3057—Hagen ashy sandy loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,400 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Hagen and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Hagen

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 7 inches; ashy sandy loam
Bw—7 to 15 inches; ashy sandy loam
E and Bt1—15 to 29 inches; loamy sand
E and Bt2—29 to 52 inches; loamy sand
C—52 to 60 inches; sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marblespring soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3060—Dearyton ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills (fig. 8)
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,360 to 2,800 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Figure 8.—Typical area of Dearyton ashy silt loam, 0 to 8 percent slopes, under cultivation in foreground. In uncultivated areas, the Dearyton soil supports a ponderosa pine/common snowberry habitat type.

Map Unit Composition

Dearyton and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Dearyton

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from saprolitic gneiss, quartzite, Latah Formation, or till
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 6 to 12 inches, perched (see Water Features table)
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; ashy silt loam
BE—6 to 12 inches; ashy silt loam
2Bt1—12 to 18 inches; clay loam
2Bt2—18 to 28 inches; clay loam
2Bt3—28 to 38 inches; clay loam
2Bt4—38 to 55 inches; clay loam
2Bt5—55 to 60 inches; gravelly clay loam

Dissimilar Minor Components

Glenrose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Skalan soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes, interfluve
Downslope shape: Convex
Across-slope shape: Convex

3061—Dearyton ashy silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 3,000 feet

Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Dearyton and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Dearyton

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from saprolitic gneiss, quartzite, Latah Formation, or till
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 6 to 12 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; ashy silt loam
BE—6 to 12 inches; ashy silt loam
2Bt1—12 to 18 inches; clay loam
2Bt2—18 to 28 inches; clay loam
2Bt3—28 to 38 inches; clay loam
2Bt4—38 to 55 inches; clay loam
2Bt5—55 to 60 inches; gravelly clay loam

Dissimilar Minor Components

Glenrose soils
Percentage of map unit: 14 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Skalan soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Endoaquolls
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3062—Dearyton ashy silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,300 to 3,000 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Dearyton and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Dearyton

Setting
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from saprolitic gneiss, quartzite, Latah Formation, or till
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 6 to 12 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; ashy silt loam
BE—6 to 12 inches; ashy silt loam
2Bt1—12 to 18 inches; clay loam
2Bt2—18 to 28 inches; clay loam
2Bt3—28 to 38 inches; clay loam
2Bt4—38 to 55 inches; clay loam
2Bt5—55 to 60 inches; gravelly clay loam

Dissimilar Minor Components

Kramerhill soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Skalan soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Spokane soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

3070—Eloika ashy very fine sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,600 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Eloika and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Eloika

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thick mantle of volcanic ash mixed with loess over outwash
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3c
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; ashy very fine sandy loam
Bw1—6 to 14 inches; ashy very fine sandy loam
Bw2—14 to 21 inches; ashy very fine sandy loam
2Bw3—21 to 41 inches; sandy loam
3Bq—41 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Kaniksu soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Stien soils, very stony surface
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Torboy soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

3071—Stien ashy silt loam, 0 to 8 percent slopes, very stony

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,100 feet
Mean annual precipitation: 22 to 26 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Stien, very stony surface, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Stien, Very Stony Surface

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thick mantle of volcanic ash over gravelly and sandy outwash
Slope range: 0 to 8 percent
Surface area covered with stones: 0.1 to 3.0 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oe—0 to 1 inch; moderately decomposed plant material
A—1 to 3 inches; ashy silt loam
Bw1—3 to 8 inches; ashy silt loam
Bw2—8 to 16 inches; ashy silt loam
Bw3—16 to 24 inches; very stony ashy silt loam
2Bw4—24 to 31 inches; very cobbly very fine sandy loam
2BC—31 to 48 inches; very gravelly loamy sand
2C—48 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Wapal soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Torboy soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads

Downslope shape: Convex
Across-slope shape: Convex

3072—Stien ashy silt loam, 8 to 15 percent slopes, very stony

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,700 to 2,700 feet
Mean annual precipitation: 22 to 30 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Stien, very stony surface, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Stien, Very Stony Surface

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over gravelly and sandy outwash
Slope range: 8 to 15 percent
Surface area covered with stones: 0.1 to 3.0 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oe—0 to 1 inch; moderately decomposed plant material
A—1 to 3 inches; ashy silt loam
Bw1—3 to 8 inches; ashy silt loam
Bw2—8 to 16 inches; ashy silt loam
Bw3—16 to 24 inches; very stony ashy silt loam
2Bw4—24 to 31 inches; very cobbly very fine sandy loam
2BC—31 to 48 inches; very gravelly loamy sand
2C—48 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Wapal soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 3 percent

Blackprince soils
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

3073—Stien, very stony-Rock outcrop complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,800 to 2,700 feet
Mean annual precipitation: 22 to 30 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Stien, very stony surface, and similar soils: 55 percent
Rock outcrop: 15 percent
Dissimilar minor components: 30 percent

Characteristics of Stien, Very Stony Surface

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers

Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over gravelly and sandy outwash
Slope range: 15 to 30 percent
Surface area covered with stones: 0.1 to 3.0 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oe—0 to 1 inch; moderately decomposed plant material
A—1 to 3 inches; ashy silt loam
Bw1—3 to 8 inches; ashy silt loam
Bw2—8 to 16 inches; ashy silt loam
Bw3—16 to 24 inches; very stony ashy silt loam
2Bw4—24 to 31 inches; very cobbly very fine sandy loam
2BC—31 to 48 inches; very gravelly loamy sand
2C—48 to 60 inches; extremely gravelly coarse sand

Characteristics of Rock Outcrop

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Blackprince soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Wapal soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers

Downslope shape: Linear
Across-slope shape: Linear

3074—Eloika ashy very fine sandy loam, moist, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 2,000 to 2,600 feet
Mean annual precipitation: 25 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Eloika, moist, and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Eloika, Moist

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thick mantle of volcanic ash mixed with loess over outwash
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3c
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; ashy very fine sandy loam
Bw1—6 to 14 inches; ashy very fine sandy loam
Bw2—14 to 21 inches; ashy very fine sandy loam
2Bw3—21 to 41 inches; sandy loam
3Bq—41 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Kaniksu soils
Percentage of map unit: 10 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bonner soils
Percentage of map unit: 4 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 4 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Torboy soils
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

Fan Lake soils
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Wolfeson soils
Percentage of map unit: 2 percent
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3080—Opportunity very gravelly ashy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys (fig. 9)
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,200 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Figure 9.—Typical area of Opportunity very gravelly ashy loam, 0 to 3 percent slopes, under cultivation. Urban land-Opportunity, disturbed, 0 to 3 percent slopes, is beyond the river, in Spokane Valley.

Map Unit Composition

Opportunity and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Opportunity

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Land capability subclass (irrigated): 2s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; very gravelly ashy loam
A1—7 to 13 inches; extremely gravelly ashy loam
A2—13 to 19 inches; extremely gravelly ashy loam
Bw1—19 to 33 inches; extremely gravelly loam
Bw2—33 to 43 inches; extremely gravelly loam
Bq—43 to 53 inches; extremely gravelly loamy coarse sand
BCk—53 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3081—Opportunity very gravelly ashy loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,200 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Opportunity and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Opportunity

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Land capability subclass (irrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; very gravelly ashy loam
A1—7 to 13 inches; extremely gravelly ashy loam
A2—13 to 19 inches; extremely gravelly ashy loam
Bw1—19 to 33 inches; extremely gravelly loam
Bw2—33 to 43 inches; extremely gravelly loam
Bq—43 to 53 inches; extremely gravelly loamy coarse sand
BCk—53 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3082—Opportunity very gravelly ashy loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,200 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Opportunity and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Opportunity

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Land capability subclass (irrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; very gravelly ashy loam
A1—7 to 13 inches; extremely gravelly ashy loam
A2—13 to 19 inches; extremely gravelly ashy loam
Bw1—19 to 33 inches; extremely gravelly loam
Bw2—33 to 43 inches; extremely gravelly loam
Bq—43 to 53 inches; extremely gravelly loamy coarse sand
BCk—53 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 13 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3083—Garrison very gravelly ashy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,150 feet
Mean annual precipitation: 18 to 24 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Garrison and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Garrison

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Land capability subclass (irrigated): 4s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
A1—0 to 4 inches; very gravelly ashy loam
A2—4 to 16 inches; very gravelly ashy loam
Bw—16 to 24 inches; very gravelly loam
C—24 to 60 inches; extremely gravelly loamy coarse sand

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3084—Garrison very gravelly ashy loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,100 feet
Mean annual precipitation: 18 to 24 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Garrison and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Garrison

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Land capability subclass (irrigated): 4s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
A1—0 to 4 inches; very gravelly ashy loam
A2—4 to 16 inches; very gravelly ashy loam

Bw—16 to 24 inches; very gravelly loam
C—24 to 60 inches; extremely gravelly loamy coarse sand

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils, extremely stony surface
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3085—Garrison very gravelly ashy loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,870 to 2,050 feet
Mean annual precipitation: 18 to 19 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Garrison and similar soils: 90 percent
Dissimilar minor components: 10 percent

Characteristics of Garrison

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear

Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
A1—0 to 4 inches; very gravelly ashy loam
A2—4 to 16 inches; very gravelly ashy loam
Bw—16 to 24 inches; very gravelly loam
C—24 to 60 inches; extremely gravelly loamy coarse sand

Dissimilar Minor Components

Opportunity soils
Percentage of map unit: 4 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 4 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Urban land
Percentage of map unit: 2 percent

3087—Garrison very gravelly ashy loam, 0 to 8 percent slopes, extremely stony surface

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 2,000 to 2,100 feet
Mean annual precipitation: 19 to 21 inches

Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Garrison, extremely stony surface, and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Garrison, Extremely Stony Surface

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Surface area covered with stones: 3 to 15 percent stones
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Land capability subclass (irrigated): 7s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
A1—0 to 4 inches; very gravelly ashy loam
A2—4 to 16 inches; very gravelly ashy loam
Bw—16 to 24 inches; very gravelly loam
C—24 to 60 inches; extremely gravelly loamy coarse sand

Dissimilar Minor Components

Garrison soils
Percentage of map unit: 8 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Urban land
Percentage of map unit: 2 percent

3090—Glenrose ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,380 to 2,780 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Glenrose and similar soils: 60 percent
Dissimilar minor components: 40 percent

Characteristics of Glenrose

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over material derived from saprolitic gneiss, quartzite, or Latah Formation
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy silt loam
AB—8 to 14 inches; ashy silt loam
Bw—14 to 19 inches; silt loam
Bt/E—19 to 24 inches; silty clay loam
Bt1—24 to 32 inches; silty clay loam
Bt2—32 to 41 inches; clay loam
Bt3—41 to 60 inches; clay loam

Dissimilar Minor Components

Larkin soils
Percentage of map unit: 14 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Dearyton soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Uhlig soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Endoaquolls
Percentage of map unit: 1 percent
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3091—Glenrose ashy silt loam, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains

Elevation: 2,200 to 2,900 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Glenrose and similar soils: 55 percent
Dissimilar minor components: 45 percent

Characteristics of Glenrose

Setting
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over material derived from saprolitic gneiss, quartzite, or Latah Formation
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy silt loam
AB—8 to 14 inches; ashy silt loam
Bw—14 to 19 inches; silt loam
Bt/E—19 to 24 inches; silty clay loam
Bt1—24 to 32 inches; silty clay loam
Bt2—32 to 41 inches; clay loam
Bt3—41 to 60 inches; clay loam

Dissimilar Minor Components

Dearyton soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Glenrose soils, cobbly surface
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Kruse soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Larkin soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Spokane soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

3101—Green Bluff ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Green Bluff and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Green Bluff

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3c
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap—0 to 7 inches; ashy silt loam
E and Bt1—7 to 17 inches; ashy silt loam
E and Bt2—17 to 29 inches; silt loam
E and Bt3—29 to 55 inches; gravelly loam
C—55 to 60 inches; fine sandy loam

Dissimilar Minor Components

Blinn soils
Percentage of map unit: 14 percent
Landform: Basalt plateaus, basalt escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Brincken soils, moist
Percentage of map unit: 10 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils
Percentage of map unit: 5 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Convex

Hoodoo soils
Percentage of map unit: 1 percent
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3102—Green Bluff ashy silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Green Bluff and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Green Bluff

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap—0 to 7 inches; ashy silt loam
E and Bt1—7 to 17 inches; ashy silt loam
E and Bt2—17 to 29 inches; silt loam
E and Bt3—29 to 55 inches; gravelly loam
C—55 to 60 inches; fine sandy loam

Dissimilar Minor Components

Bobbitt soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Brincken soils, moist
Percentage of map unit: 5 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Klickson soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils
Percentage of map unit: 5 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Hoodoo soils
Percentage of map unit: 3 percent
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 2 percent

3110—Fourmound-Stutler complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,500 feet
Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Fourmound and similar soils: 45 percent
Stutler and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Fourmound

Setting
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (range): All aspects

Properties and qualities
Parent material: Glaciofluvial deposits and loess mixed with a minor amount of volcanic ash over residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 4 inches; gravelly ashy silt loam
A2—4 to 9 inches; ashy silt loam
A3—9 to 15 inches; ashy silt loam
Bw1—15 to 30 inches; silt loam
Bw2—30 to 43 inches; silt loam
2BC—43 to 47 inches; extremely gravelly silt loam
2R—47 to 57 inches; bedrock

Characteristics of Stutler

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 5 inches; gravelly ashy silt loam
Bw1—5 to 12 inches; gravelly ashy silt loam
Bw2—12 to 22 inches; very cobbly silt loam
Bw3—22 to 32 inches; extremely cobbly loam
Bq1—32 to 42 inches; extremely gravelly coarse sandy loam
Bq2—42 to 61 inches; extremely gravelly loamy coarse sand

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Seaboldt soils, warm
Percentage of map unit: 5 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rockly soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Cocolalla soils
Percentage of map unit: 2 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

3112—Stutler gravelly ashy loam, 0 to 15 percent slopes, extremely bouldery surface

Map Unit Setting

General landscape: Channeled scablands (fig. 10)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,500 feet
Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Figure 10.—Typical area of Stutler gravelly ashy loam, 0 to 15 percent slopes, extremely bouldery surface, under a canopy of ponderosa pine.

Map Unit Composition

Stutler, extremely bouldery surface, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Stutler, Extremely Bouldery Surface

Setting
Landform: Outwash terraces, outwash plains
Geomorphic position (three-dimensional): Treads, risers
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 15 percent
Percentage of surface area covered with boulders: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 5 inches; gravelly ashy loam
Bw1—5 to 12 inches; cobbly ashy loam
Bw2—12 to 22 inches; extremely bouldery coarse sandy loam
Bw3—22 to 32 inches; extremely bouldery coarse sandy loam
Bq1—32 to 42 inches; extremely bouldery coarse sandy loam
Bq2—42 to 61 inches; extremely bouldery loamy coarse sand

Dissimilar Minor Components

Rockly soils
Percentage of map unit: 8 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Northstar soils
Percentage of map unit: 7 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Cocolalla soils
Percentage of map unit: 5 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 5 percent

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3113—Stutler-Springdale complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies

Elevation: 1,900 to 2,500 feet
Mean annual precipitation: 15 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Stutler and similar soils: 55 percent
Springdale and similar soils: 30 percent
Dissimilar minor components: 15 percent

Characteristics of Stutler

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 5 inches; gravelly ashy silt loam
Bw1—5 to 12 inches; gravelly ashy silt loam
Bw2—12 to 22 inches; very cobbly silt loam
Bw3—22 to 32 inches; extremely cobbly loam
Bq1—32 to 42 inches; extremely gravelly coarse sandy loam
Bq2—42 to 61 inches; extremely gravelly loamy coarse sand

Characteristics of Springdale

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): West
Aspect (range): North to northwest (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 3 inches; gravelly ashy coarse sandy loam
AB—3 to 7 inches; gravelly ashy coarse sandy loam
Bw—7 to 13 inches; gravelly ashy coarse sandy loam
C1—13 to 25 inches; very gravelly loamy coarse sand
C2—25 to 61 inches; very cobbly coarse sand

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Northstar soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

3114—Rockly-Fourmound complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,600 feet

Mean annual precipitation: 15 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Rockly and similar soils: 55 percent
Fourmound and similar soils: 25 percent
Dissimilar minor components: 20 percent

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Characteristics of Fourmound

Setting
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (range): All aspects

Properties and qualities
Parent material: Glaciofluvial deposits and loess mixed with a minor amount of volcanic ash over residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 4 inches; gravelly ashy silt loam
A2—4 to 9 inches; ashy silt loam
A3—9 to 15 inches; ashy silt loam
Bw1—15 to 30 inches; silt loam
Bw2—30 to 43 inches; silt loam
2BC—43 to 47 inches; extremely gravelly silt loam
2R—47 to 57 inches; bedrock

Dissimilar Minor Components

Northstar soils
Percentage of map unit: 8 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 7 percent

Cocolalla soils
Percentage of map unit: 4 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Water
Percentage of map unit: 1 percent

3115—Northstar-Rock outcrop complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,550 feet
Mean annual precipitation: 15 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Northstar and similar soils: 50 percent
Rock outcrop: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Northstar

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to north (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A1—3 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam
2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 3 to 15 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Rockly soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Rubble land
Percentage of map unit: 5 percent

Cocolalla soils
Percentage of map unit: 4 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Stutler soils
Percentage of map unit: 4 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Klickson soils
Percentage of map unit: 2 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

3116—Northstar-Rockly complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,150 to 2,500 feet
Mean annual precipitation: 15 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Northstar and similar soils: 45 percent
Rockly and similar soils: 45 percent
Dissimilar minor components: 10 percent

Characteristics of Northstar

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): South to east (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A1—3 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam
2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Dissimilar Minor Components

Fourmound soils
Percentage of map unit: 4 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Rock outcrop
Percentage of map unit: 3 percent

Cocolalla soils
Percentage of map unit: 2 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Speigle soils
Percentage of map unit: 1 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

3117—Northstar-Rock outcrop-Rockly complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,550 feet
Mean annual precipitation: 15 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Rock outcrop: 25 percent
Northstar and similar soils: 25 percent
Rockly and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Northstar

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): South to east (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A1—3 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam
2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 0 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Dissimilar Minor Components

Fourmound soils
Percentage of map unit: 10 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Cocolalla soils
Percentage of map unit: 5 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Rubble land
Percentage of map unit: 5 percent

Speigle soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

3118—Rockly-Cocolalla complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,990 to 2,550 feet
Mean annual precipitation: 15 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Rockly and similar soils: 40 percent
Cocolalla and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Rockly

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 4 to 12 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 0.5 inch)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Ecological site: VERY SHALLOW 16-24 PZ (R009XY301WA)

Typical profile
A—0 to 3 inches; very cobbly loam
Bw—3 to 6 inches; very cobbly loam
R—6 to 16 inches; bedrock

Characteristics of Cocolalla

Setting
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 2 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 11 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 13.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
A1—0 to 11 inches; ashy silt loam
A2—11 to 28 inches; ashy silt loam
Cg1—28 to 37 inches; ashy silt loam
Cg2—37 to 43 inches; ashy silt loam
Ab—43 to 54 inches; ashy silt loam
Cgb—54 to 60 inches; ashy silt loam

Dissimilar Minor Components

Fourmound soils
Percentage of map unit: 10 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Northstar soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

Water
Percentage of map unit: 5 percent

3120—Marble loamy sand, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,500 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Marble and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Marble

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Hagen soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marblespring soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3121—Marble loamy sand, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,560 to 2,500 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Marble and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Marble

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Marblespring soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bong soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hagen soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

3122—Marble loamy sand, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,600 to 2,500 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Marble and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Marble

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Marblespring soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Hagen soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Bong soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Concave
Across-slope shape: Concave

Elmira soils
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

3123—Marble loamy sand, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,500 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Marble and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Marble

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 30 to 55 percent

Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Spens soils
Percentage of map unit: 12 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Hagen soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Spens soils, cool
Percentage of map unit: 4 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Bong soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Concave
Across-slope shape: Concave

Hardesty soils
Percentage of map unit: 1 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

3126—Rock outcrop-Northstar complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Channeled scabland
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,500 feet
Mean annual precipitation: 15 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Rock outcrop: 40 percent
Northstar and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Rock Outcrop

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Characteristics of Northstar

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): Northeast to north (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A1—3 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam

2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Speigle soils
Percentage of map unit: 10 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Fourmound soils
Percentage of map unit: 5 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Rockly soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Rubble land
Percentage of map unit: 5 percent

3127—Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,540 to 2,100 feet
Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Marblespring and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Marblespring

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 0 to 8 percent

Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
A1—0.5 to 2 inches; fine gravelly loamy coarse sand
A2—2 to 7 inches; fine gravelly loamy coarse sand
E and Bt1—7 to 27 inches; very gravelly loamy coarse sand
E and Bt2—27 to 51 inches; very gravelly loamy coarse sand
C—51 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Spens soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

3130—Phoebe ashy sandy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies

Elevation: 1,700 to 2,400 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Phoebe and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Phoebe

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Clayton soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bong soils
Percentage of map unit: 6 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3131—Phoebe ashy sandy loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,700 to 2,400 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Phoebe and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Phoebe

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam

Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Bong soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Clayton soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3132—Bong, moist-Phoebe complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,400 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Bong, moist, and similar soils: 45 percent
Phoebe and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Bong, Moist

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches

Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 11 inches; ashy sandy loam
Bw—11 to 22 inches; sandy loam
BC—22 to 28 inches; gravelly coarse sandy loam
C—28 to 60 inches; coarse sand

Characteristics of Phoebe

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3133—Phoebe ashy sandy loam, dry, 0 to 3 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,500 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Phoebe, dry, and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Phoebe, Dry

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam

Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Clayton soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bong soils
Percentage of map unit: 6 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3134—Phoebe ashy sandy loam, dry, 3 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,500 feet
Mean annual precipitation: 16 to 17 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Phoebe, dry, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Phoebe, Dry

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent

Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Bong soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Clayton soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3135—Bong-Phoebe, dry, complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,700 to 2,500 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Bong and similar soils: 45 percent
Phoebe, dry, and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Bong

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 11 inches; ashy sandy loam
Bw—11 to 22 inches; sandy loam
BC—22 to 28 inches; gravelly coarse sandy loam
C—28 to 60 inches; coarse sand

Characteristics of Phoebe, Dry

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3140—Springdale gravelly ashy coarse sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,540 to 2,500 feet
Mean annual precipitation: 15 to 23 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 130 days

Map Unit Composition

Springdale and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Springdale

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 3 inches; gravelly ashy coarse sandy loam
AB—3 to 7 inches; gravelly ashy coarse sandy loam
Bw—7 to 13 inches; gravelly ashy coarse sandy loam
C1—13 to 25 inches; very gravelly loamy coarse sand
C2—25 to 61 inches; very cobbly coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, stony surface
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3141—Springdale gravelly ashy coarse sandy loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,540 to 2,500 feet
Mean annual precipitation: 15 to 23 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 130 days

Map Unit Composition

Springdale and similar soils: 60 percent
Dissimilar minor components: 40 percent

Characteristics of Springdale

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 3 inches; gravelly ashy coarse sandy loam
AB—3 to 7 inches; gravelly ashy coarse sandy loam
Bw—7 to 13 inches; gravelly ashy coarse sandy loam
C1—13 to 25 inches; very gravelly loamy coarse sand
C2—25 to 61 inches; very cobbly coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 14 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Spens soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Garrison soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3142—Spens very gravelly loamy coarse sand, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,400 feet
Mean annual precipitation: 15 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 120 to 140 days

Map Unit Composition

Spens and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Spens

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers

Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Very high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 3 inches; very gravelly loamy coarse sand
C1—3 to 18 inches; very gravelly loamy coarse sand
C2—18 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 14 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3143—Spens very gravelly loamy coarse sand, 30 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,400 feet
Mean annual precipitation: 15 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 120 to 140 days

Map Unit Composition

Spens and similar soils: 60 percent
Dissimilar minor components: 40 percent

Characteristics of Spens

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 30 to 65 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Very high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 3 inches; very gravelly loamy coarse sand
C1—3 to 18 inches; very gravelly loamy coarse sand
C2—18 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 14 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Marble soils
Percentage of map unit: 14 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 6 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Wapal soils
Percentage of map unit: 6 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3144—Wapal gravelly ashy coarse sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,100 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Wapal and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Wapal

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
A—2 to 6 inches; gravelly ashy coarse sandy loam
Bw1—6 to 13 inches; gravelly ashy coarse sandy loam
Bw2—13 to 17 inches; very gravelly coarse sandy loam
BC—17 to 21 inches; very gravelly loamy coarse sand
C—21 to 30 inches; extremely gravelly coarse sand
Bq1—30 to 36 inches; very gravelly coarse sand
Bq2—36 to 62 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Bonner soils
Percentage of map unit: 8 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Kaniksu soils
Percentage of map unit: 7 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3145—Wapal gravelly ashy coarse sandy loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,500 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Wapal and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Wapal

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
A—2 to 6 inches; gravelly ashy coarse sandy loam
Bw1—6 to 13 inches; gravelly ashy coarse sandy loam
Bw2—13 to 17 inches; very gravelly coarse sandy loam
BC—17 to 21 inches; very gravelly loamy coarse sand
C—21 to 30 inches; extremely gravelly coarse sand
Bq1—30 to 36 inches; very gravelly coarse sand
Bq2—36 to 62 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Scoap soils
Percentage of map unit: 14 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 11 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Elmira soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Klickson soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes

Downslope shape: Linear
Across-slope shape: Linear

3146—Scoap-Wapal complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,400 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Scoap and similar soils: 45 percent
Wapal and similar soils: 35 percent
Dissimilar minor components: 20 percent

Characteristics of Scoap

Setting
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Outwash deposits mixed with loess and a minor amount of volcanic ash in the upper part
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 7 inches; gravelly ashy sandy loam
A2—7 to 17 inches; very gravelly ashy sandy loam
Bw—17 to 30 inches; very gravelly sandy loam
BC—30 to 47 inches; very gravelly sandy loam
C—47 to 60 inches; gravelly loamy sand

Characteristics of Wapal

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
A—2 to 6 inches; gravelly ashy coarse sandy loam
Bw1—6 to 13 inches; gravelly ashy coarse sandy loam
Bw2—13 to 17 inches; very gravelly coarse sandy loam
BC—17 to 21 inches; very gravelly loamy coarse sand
C—21 to 30 inches; extremely gravelly coarse sand
Bq1—30 to 36 inches; very gravelly coarse sand
Bq2—36 to 62 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Elmira soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Klickson soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

Rubble land
Percentage of map unit: 5 percent

3147—Spens very gravelly loamy coarse sand, cool, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,600 to 1,750 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 120 days

Map Unit Composition

Spens, cool, and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Spens, Cool

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): North
Aspect (range): Southwest to northeast (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Very high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
A—0 to 3 inches; very gravelly loamy coarse sand
C1—3 to 18 inches; very gravelly loamy coarse sand
C2—18 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Marble soils
Percentage of map unit: 5 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Wapal soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3148—Spens very gravelly loamy coarse sand, cool, 30 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,540 to 2,400 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 120 days

Map Unit Composition

Spens, cool, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Spens, Cool

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): North
Aspect (range): Southwest to northeast (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 30 to 65 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Very high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
A—0 to 3 inches; very gravelly loamy coarse sand
C1—3 to 18 inches; very gravelly loamy coarse sand
C2—18 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Elmira soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Marble soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Spens soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Wapal soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3200—Torboy fine gravelly ashy coarse sandy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,850 to 2,400 feet
Mean annual precipitation: 20 to 27 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Torboy and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Torboy

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 7 inches; fine gravelly ashy coarse sandy loam
Bw1—7 to 11 inches; fine gravelly ashy sandy loam
Bw2—11 to 22 inches; fine gravelly ashy sandy loam
C1—22 to 33 inches; fine gravelly loamy coarse sand
C2—33 to 45 inches; gravelly coarse sand
C3—45 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Eloika soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Scrabblers soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear

3201—Torboy ashy sandy loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,800 to 2,900 feet
Mean annual precipitation: 22 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Torboy and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Torboy

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to northeast (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 7 inches; ashy sandy loam
Bw1—7 to 11 inches; ashy sandy loam
Bw2—11 to 22 inches; ashy sandy loam
C1—22 to 33 inches; loamy coarse sand
C2—33 to 45 inches; coarse sand
C3—45 to 60 inches; gravelly coarse sand

Dissimilar Minor Components

Eloika soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Blackprince soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

3202—Torboy-Blackprince complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,800 to 2,900 feet
Mean annual precipitation: 21 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Torboy and similar soils: 55 percent
Blackprince and similar soils: 20 percent
Dissimilar minor components: 25 percent

Characteristics of Torboy

Setting
Landform: Hills, outwash terraces
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes, risers
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 7 inches; fine gravelly ashy coarse sandy loam
Bw1—7 to 11 inches; fine gravelly ashy sandy loam
Bw2—11 to 22 inches; fine gravelly ashy sandy loam
C1—22 to 33 inches; fine gravelly loamy coarse sand
C2—33 to 45 inches; gravelly coarse sand
C3—45 to 60 inches; very gravelly coarse sand

Characteristics of Blackprince

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes, crests
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 5 inches; gravelly ashy coarse sandy loam
Bw—5 to 19 inches; very gravelly ashy sandy loam

Bt—19 to 26 inches; very gravelly coarse sandy loam
BCt—26 to 36 inches; very gravelly loamy coarse sand
Cr—36 inches; bedrock

Dissimilar Minor Components

Eloika soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Concave

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

3210—Kaniksu ashy sandy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 2,560 feet
Mean annual precipitation: 22 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Kaniksu and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Kaniksu

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; ashy sandy loam
Bw—6 to 15 inches; ashy sandy loam
E and Bt1—15 to 25 inches; loamy sand
E and Bt2—25 to 43 inches; loamy sand
E and Bt3—43 to 55 inches; loamy sand
C—55 to 70 inches; sand

Dissimilar Minor Components

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Torboy soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

Eloika soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Colburn soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Wolfeson soils
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3211—Kaniksu ashy sandy loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 2,600 feet
Mean annual precipitation: 22 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Kaniksu and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Kaniksu

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; ashy sandy loam
Bw—6 to 15 inches; ashy sandy loam
E and Bt1—15 to 25 inches; loamy sand
E and Bt2—25 to 43 inches; loamy sand
E and Bt3—43 to 55 inches; loamy sand
C—55 to 70 inches; sand

Dissimilar Minor Components

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Torboy soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Eloika soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

3212—Kaniksu, dry-Seaboldt complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 2,400 feet
Mean annual precipitation: 22 to 25 inches
Mean annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Kaniksu, dry, and similar soils: 50 percent
Seaboldt and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of Kaniksu, Dry

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent

Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3c
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap—0 to 7 inches; ashy sandy loam
Bw1—7 to 15 inches; ashy sandy loam
Bw2—15 to 23 inches; sandy loam
E and Bt1—23 to 42 inches; loamy sand
E and Bt2—42 to 60 inches; loamy sand

Characteristics of Seaboldt

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam

2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 inches; bedrock

Dissimilar Minor Components

Stapaloop soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Elmira soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

Kaniksu soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

3220—Stapaloop ashy fine sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,960 to 2,350 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Stapaloop and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Stapaloop

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Glaciofluvial deposits with an influence of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3c
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap—0 to 8 inches; ashy fine sandy loam
Bw1—8 to 14 inches; ashy fine sandy loam
Bw2—14 to 22 inches; ashy fine sandy loam
E and Bt1—22 to 32 inches; fine sandy loam
E and Bt2—32 to 52 inches; loamy fine sand
E and Bt3—52 to 60 inches; loamy fine sand

Dissimilar Minor Components

Fan Lake soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Kaniksu soils, dry
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Scrabblers soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Wolfeson soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3221—Stapaloop-Kaniksu, dry complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 20 to 26 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Stapaloop and similar soils: 55 percent
Kaniksu, dry, and similar soils: 30 percent
Dissimilar minor components: 15 percent

Characteristics of Stapaloop

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): Northwest to south (clockwise)

Properties and qualities
Parent material: Glaciofluvial deposits with an influence of volcanic ash and loess in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap—0 to 8 inches; ashy fine sandy loam
Bw1—8 to 14 inches; ashy fine sandy loam
Bw2—14 to 22 inches; ashy fine sandy loam
E and Bt1—22 to 32 inches; fine sandy loam
E and Bt2—32 to 52 inches; loamy fine sand
E and Bt3—52 to 60 inches; loamy fine sand

Characteristics of Kaniksu, Dry

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap—0 to 7 inches; ashy sandy loam
Bw1—7 to 15 inches; ashy sandy loam
Bw2—15 to 23 inches; sandy loam
E and Bt1—23 to 42 inches; loamy sand
E and Bt2—42 to 60 inches; loamy sand

Dissimilar Minor Components

Fan Lake soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Torboy soils
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Kaniksu soils
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

3222—Stapaloop-Seaboldt complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,960 to 2,200 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Stapaloop and similar soils: 50 percent
Seaboldt and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Stapaloop

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Glaciofluvial deposits with an influence of volcanic ash and loess in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3c
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap—0 to 8 inches; ashy fine sandy loam
Bw1—8 to 14 inches; ashy fine sandy loam
Bw2—14 to 22 inches; ashy fine sandy loam
E and Bt1—22 to 32 inches; fine sandy loam
E and Bt2—32 to 52 inches; loamy fine sand
E and Bt3—52 to 60 inches; loamy fine sand

Characteristics of Seaboldt

Setting
Landform: Outwash plains of basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex

Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 inches; bedrock

Dissimilar Minor Components

Kaniksu soils, dry
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Fan Lake soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 2 percent

3300—Scrabblers ashy fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 2,100 to 2,240 feet

Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Scrabblers and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Scrabblers

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thin mantle of volcanic ash mixed with loess over outwash
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy fine sandy loam
A2—5 to 8 inches; ashy fine sandy loam
Bw1—8 to 12 inches; ashy fine sandy loam
2Bw2—12 to 23 inches; gravelly sandy loam
2C1—23 to 36 inches; loamy coarse sand
2C2—36 to 60 inches; gravelly coarse sand

Dissimilar Minor Components

Eloika soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Kaniksu soils, dry
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Torboy soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

3301—Scrabblers ashy fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,300 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Scrabblers and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Scrabblers

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thin mantle of volcanic ash mixed with loess over outwash
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy fine sandy loam
A2—5 to 8 inches; ashy fine sandy loam
Bw1—8 to 12 inches; ashy fine sandy loam
2Bw2—12 to 23 inches; gravelly sandy loam
2C1—23 to 36 inches; loamy coarse sand
2C2—36 to 60 inches; gravelly coarse sand

Dissimilar Minor Components

Kaniksu soils, dry
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Eloika soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Elmira soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Convex

Kaniksu soils
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3302—Scrabblers ashy fine sandy loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,300 feet
Mean annual precipitation: 20 to 25 inches

Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Scrabblers and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Scrabblers

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Northeast
Aspect (range): Northwest to southeast (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash mixed with loess over outwash
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy fine sandy loam
A2—5 to 8 inches; ashy fine sandy loam
Bw1—8 to 12 inches; ashy fine sandy loam
2Bw2—12 to 23 inches; gravelly sandy loam
2C1—23 to 36 inches; loamy coarse sand
2C2—36 to 60 inches; gravelly coarse sand

Dissimilar Minor Components

Blackprince soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes, crests
Downslope shape: Convex
Across-slope shape: Convex

Torboy soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers

Downslope shape: Convex
Across-slope shape: Convex

Eloika soils
Percentage of map unit: 8 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Eloika soils, moist
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3303—Scrabblers-Torboy complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,400 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Scrabblers and similar soils: 60 percent
Torboy and similar soils: 30 percent
Dissimilar minor components: 10 percent

Characteristics of Scrabblers

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southwest
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash mixed with loess over outwash
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy fine sandy loam
A2—5 to 8 inches; ashy fine sandy loam
Bw1—8 to 12 inches; ashy fine sandy loam
2Bw2—12 to 23 inches; gravelly sandy loam
2C1—23 to 36 inches; loamy coarse sand
2C2—36 to 60 inches; gravelly coarse sand

Characteristics of Torboy

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 7 inches; fine gravelly ashy coarse sandy loam
Bw1—7 to 11 inches; fine gravelly ashy sandy loam
Bw2—11 to 22 inches; fine gravelly ashy sandy loam
C1—22 to 33 inches; fine gravelly loamy coarse sand
C2—33 to 45 inches; gravelly coarse sand
C3—45 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Kaniksu soils, dry
Percentage of map unit: 5 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Eloika soils
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3401—Elmira loamy sand, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,240 feet
Mean annual precipitation: 22 to 28 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Elmira and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Elmira

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; loamy sand
Bw—6 to 12 inches; loamy sand
E—12 to 23 inches; sand
E and Bt1—23 to 54 inches; sand
E and Bt2—54 to 66 inches; sand
E and Bt3—66 to 80 inches; sand

Dissimilar Minor Components

Hagen soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3402—Elmira loamy sand, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,240 feet
Mean annual precipitation: 22 to 28 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Elmira and similar soils: 60 percent
Dissimilar minor components: 40 percent

Characteristics of Elmira

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; loamy sand
Bw—6 to 12 inches; loamy sand
E—12 to 23 inches; sand
E and Bt1—23 to 54 inches; sand
E and Bt2—54 to 66 inches; sand
E and Bt3—66 to 80 inches; sand

Dissimilar Minor Components

Hagen soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Stapaloop soils
Percentage of map unit: 11 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Scrabblers soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3403—Elmira loamy sand, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,240 feet
Mean annual precipitation: 22 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Elmira and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Elmira

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; loamy sand
Bw—6 to 12 inches; loamy sand
E—12 to 23 inches; sand
E and Bt1—23 to 54 inches; sand
E and Bt2—54 to 66 inches; sand
E and Bt3—66 to 80 inches; sand

Dissimilar Minor Components

Hagen soils
Percentage of map unit: 14 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Scrabblers soils
Percentage of map unit: 11 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Colburn soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

3404—Elmira-Seaboldt complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,900 to 2,240 feet
Mean annual precipitation: 22 to 25 inches
Mean annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Elmira and similar soils: 50 percent
Seaboldt and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Elmira

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/common snowberry (CN310)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 6 inches; loamy sand
Bw—6 to 12 inches; loamy sand
E—12 to 23 inches; sand
E and Bt1—23 to 54 inches; sand
E and Bt2—54 to 66 inches; sand
E and Bt3—66 to 80 inches; sand

Characteristics of Seaboldt

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Kaniksu soils, dry
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Marble soils
Percentage of map unit: 3 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

3500—Uhlig ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,450 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Uhlig and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Uhlig

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap1—0 to 4 inches; ashy silt loam
Ap2—4 to 10 inches; ashy silt loam
A—10 to 18 inches; ashy loam
2Bt1—18 to 32 inches; loam
2Bt2—32 to 42 inches; loam
2C—42 to 60 inches; very fine sandy loam

Dissimilar Minor Components

Bong soils, moist
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Narcisse soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils
Percentage of map unit: 5 percent
Landform: Depressions, stream terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

3501—Brincken, moist-Uhlig complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,900 to 2,500 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Brincken, moist, and similar soils: 45 percent
Uhlig and similar soils: 30 percent
Dissimilar minor components: 25 percent

Characteristics of Brincken, Moist

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam
Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Characteristics of Uhlig

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap1—0 to 4 inches; ashy silt loam
Ap2—4 to 10 inches; ashy silt loam
A—10 to 18 inches; ashy loam
2Bt1—18 to 32 inches; loam
2Bt2—32 to 42 inches; loam
2C—42 to 60 inches; very fine sandy loam

Dissimilar Minor Components

Fourmound soils
Percentage of map unit: 14 percent
Landform: Mounds on basalt plateaus

Downslope shape: Linear, convex
Across-slope shape: Linear

Seaboldt soils
Percentage of map unit: 6 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Nez Perce soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear

3502—Brincken, moist-Fourmound complex, 0 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,500 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Brincken, moist, and similar soils: 45 percent
Fourmound and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Brincken, Moist

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam
Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Characteristics of Fourmound

Setting
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex
Aspect (range): All aspects

Properties and qualities
Parent material: Glaciofluvial deposits and loess mixed with a minor amount of volcanic ash over residuum derived from basalt
Slope range: 0 to 15 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 4 inches; gravelly ashy silt loam
A2—4 to 9 inches; ashy silt loam
A3—9 to 15 inches; ashy silt loam
Bw1—15 to 30 inches; silt loam
Bw2—30 to 43 inches; silt loam
2BC—43 to 47 inches; extremely gravelly silt loam
2R—47 to 57 inches; bedrock

Dissimilar Minor Components

Speigle soils
Percentage of map unit: 10 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Convex

Bobbitt soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

3503—Uhlig ashy silt loam, dry, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,500 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Uhlig, dry, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Uhlig, Dry

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): West to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap1—0 to 4 inches; ashy silt loam
Ap2—4 to 10 inches; ashy silt loam

A—10 to 18 inches; ashy loam
2Bt1—18 to 32 inches; loam
2Bt2—32 to 42 inches; loam
2C—42 to 60 inches; very fine sandy loam

Dissimilar Minor Components

Bong soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Cheney soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Narcisse soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Deno soils
Percentage of map unit: 3 percent
Landform: Mounds on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Seaboldt soils, dry
Percentage of map unit: 2 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3504—Brincken ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,600 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Brincken and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Brincken

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam
Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Dissimilar Minor Components

Reardan soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Athena soils
Percentage of map unit: 6 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Cheney soils
Percentage of map unit: 5 percent
Landform: Outwash plains

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, dry
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Tucannon soils
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Narcisse soils
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3505—Seaboldt, warm-Brincken, moist complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,300 to 2,440 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Seaboldt, warm, and similar soils: 60 percent
Brincken, moist, and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Seaboldt, Warm

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Characteristics of Brincken, Moist

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam
Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Dissimilar Minor Components

Nez Perce soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Urban land
Percentage of map unit: 5 percent

3600—Seaboldt ashy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Seaboldt and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Seaboldt

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Uhlig soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Rockly soils
Percentage of map unit: 8 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Brincken soils, moist
Percentage of map unit: 5 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Fourmound soils
Percentage of map unit: 5 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Phoebe soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Narcisse soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

3601—Seaboldt ashy loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys, Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Seaboldt and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Seaboldt

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Fourmound soils
Percentage of map unit: 10 percent
Landform: Mounds on basalt plateaus
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Northstar soils
Percentage of map unit: 10 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

4000—Hunters ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,800 to 1,900 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Hunters and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Hunters

Setting
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over calcareous glaciolacustrine deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap—0 to 6 inches; ashy silt loam
A—6 to 14 inches; ashy silt loam
Bw—14 to 26 inches; silt loam
Bk1—26 to 36 inches; silt loam
Bk2—36 to 46 inches; silt
Bk3—46 to 55 inches; silt
Bk4—55 to 64 inches; silt

Dissimilar Minor Components

Cedonia soils
Percentage of map unit: 10 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Linear

Peone soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Lakespring soils
Percentage of map unit: 5 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

4001—Cedonia ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,000 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 45 to 47 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Cedonia and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Cedonia

Setting
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Calcareous glaciolacustrine deposits with an influence of loess and volcanic ash in the upper part
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Nonsaline (about 0.5 millimho per centimeter)
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 6 inches; ashy silt loam
AB—6 to 12 inches; ashy silt loam
Bk1—12 to 27 inches; silt loam
Bk2—27 to 33 inches; silt loam
C—33 to 60 inches; silt loam

Dissimilar Minor Components

Green Bluff soils
Percentage of map unit: 10 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex

Lakespring soils
Percentage of map unit: 10 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Hunters soils
Percentage of map unit: 5 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Peone soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

4002—Cedonia ashy silt loam, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,000 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 45 to 47 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Cedonia and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Cedonia

Setting
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Calcareous glaciolacustrine deposits with an influence of loess and volcanic ash in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Nonsaline (about 0.5 millimho per centimeter)
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 6 inches; ashy silt loam
AB—6 to 12 inches; ashy silt loam
Bk1—12 to 27 inches; silt loam
Bk2—27 to 33 inches; silt loam
C—33 to 60 inches; silt loam

Dissimilar Minor Components

Lakespring soils
Percentage of map unit: 10 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Peone soils
Percentage of map unit: 10 percent
Landform: Drainageways
Downslope shape: Concave
Across-slope shape: Linear

Green Bluff soils
Percentage of map unit: 5 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear, convex

Hunters soils
Percentage of map unit: 5 percent
Landform: Relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

4031—Lakespring ashy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lakespring and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Lakespring

Setting
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciolacustrine deposits, Latah Formation, and landslide deposits
Slope range: 0 to 8 percent

Depth to restrictive feature: 20 to 40 inches to densic material
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 34 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 7 inches; ashy loam
Bt1—7 to 21 inches; loam
Bt2—21 to 34 inches; gravelly loam
2Cd1—34 to 39 inches; silty clay loam
2Cd2—39 to 50 inches; silt loam
2Cd3—50 to 72 inches; silty clay loam

Dissimilar Minor Components

Brincken soils, moist
Percentage of map unit: 5 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Cedonia soils
Percentage of map unit: 5 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex
Across-slope shape: Linear

Green Bluff soils
Percentage of map unit: 5 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex

Dearyton soils
Percentage of map unit: 3 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Speigle soils
Percentage of map unit: 2 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes

Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

4032—Lakespring ashy loam, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lakespring and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Lakespring

Setting
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciolacustrine deposits, Latah Formation, and landslide deposits
Slope range: 8 to 25 percent
Depth to restrictive feature: 20 to 40 inches to densic material
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 34 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 7 inches; ashy loam
Bt1—7 to 21 inches; loam
Bt2—21 to 34 inches; gravelly loam
2Cd1—34 to 39 inches; silty clay loam
2Cd2—39 to 50 inches; silt loam
2Cd3—50 to 72 inches; silty clay loam

Dissimilar Minor Components

Spokane soils
Percentage of map unit: 9 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Brincken soils, moist
Percentage of map unit: 5 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Dearyton soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Marble soils
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Speigle soils
Percentage of map unit: 5 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 1 percent

4033—Lakespring-Brincken, moist, complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,600 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lakespring and similar soils: 50 percent
Brincken, moist, and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Lakespring

Setting
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciolacustrine deposits, Latah Formation, and landslide deposits
Slope range: 8 to 25 percent
Depth to restrictive feature: 20 to 40 inches to densic material
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 34 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 7 inches; ashy loam
Bt1—7 to 21 inches; loam
Bt2—21 to 34 inches; gravelly loam
2Cd1—34 to 39 inches; silty clay loam
2Cd2—39 to 50 inches; silt loam
2Cd3—50 to 72 inches; silty clay loam

Characteristics of Brincken, Moist

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam
Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Dissimilar Minor Components

Speigle soils
Percentage of map unit: 10 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Dearyton soils
Percentage of map unit: 3 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

4040—Wolfeson-Fan Lake complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 2,300 feet
Mean annual precipitation: 22 to 26 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Wolfeson and similar soils: 60 percent
Fan Lake and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Wolfeson

Setting
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial and glaciolacustrine deposits
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 37 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Ap—0 to 9 inches; ashy fine sandy loam
Bw1—9 to 21 inches; ashy fine sandy loam
Bw2—21 to 37 inches; fine sandy loam
C1—37 to 48 inches; clay loam
C2—48 to 53 inches; silty clay loam
C3—53 to 60 inches; loamy fine sand

Characteristics of Fan Lake

Setting
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thin mantle of volcanic ash mixed with loess over glaciofluvial deposits or Latah Formation
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 24 inches, perched (see Water Features table)
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4w
Forest Service habitat type: Grand fir/twinflower (CN590)

Typical profile
Ap—0 to 4 inches; ashy very fine sandy loam
AB—4 to 8 inches; ashy very fine sandy loam
Bw—8 to 16 inches; ashy fine sandy loam
2E—16 to 24 inches; fine sandy loam
2E/Bt—24 to 36 inches; loam
2Btx—36 to 51 inches; clay loam
3C1—51 to 57 inches; fine sandy loam
3C2—57 to 60 inches; sandy clay loam

Dissimilar Minor Components

Stapaloop soils
Percentage of map unit: 10 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bridgeson soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

4041—Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,100 to 2,300 feet
Mean annual precipitation: 22 to 24 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Wolfeson and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Wolfeson

Setting
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial and glaciolacustrine deposits
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 37 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Ap—0 to 9 inches; ashy very fine sandy loam
Bw1—9 to 21 inches; ashy fine sandy loam
Bw2—21 to 37 inches; fine sandy loam
C1—37 to 48 inches; clay loam
C2—48 to 53 inches; silty clay loam
C3—53 to 60 inches; loamy fine sand

Dissimilar Minor Components

Fan Lake soils
Percentage of map unit: 10 percent
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Bridgeson soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Stapaloop soils
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

4050—Fan Lake ashy very fine sandy loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 2,400 feet

Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Fan Lake and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Fan Lake

Setting
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thin mantle of volcanic ash mixed with loess over glaciofluvial deposits or Latah Formation
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 24 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4w
Forest Service habitat type: Grand fir/twinflower (CN590)

Typical profile
Ap—0 to 4 inches; ashy very fine sandy loam
AB—4 to 8 inches; ashy very fine sandy loam
Bw—8 to 16 inches; ashy fine sandy loam
2E—16 to 24 inches; fine sandy loam
2E/Bt—24 to 36 inches; loam
2Btx—36 to 51 inches; clay loam
3C1—51 to 57 inches; fine sandy loam
3C2—57 to 60 inches; sandy clay loam

Dissimilar Minor Components

Green Bluff soils
Percentage of map unit: 5 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex

Klickson soils
Percentage of map unit: 5 percent
Landform: Escarpments

Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Wolfeson soils
Percentage of map unit: 3 percent
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Kronquist soils
Percentage of map unit: 2 percent
Landform: Stream terraces, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

4051—Fan Lake ashy very fine sandy loam, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 2,400 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Fan Lake and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Fan Lake

Setting
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Thin mantle of volcanic ash mixed with loess over glaciofluvial deposits or Latah Formation
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 24 inches, perched (see Water Features table)
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/twinflower (CN590)

Typical profile
Ap—0 to 4 inches; ashy very fine sandy loam
AB—4 to 8 inches; ashy very fine sandy loam
Bw—8 to 16 inches; ashy fine sandy loam
2E—16 to 24 inches; fine sandy loam
2E/Bt—24 to 36 inches; loam
2Btx—36 to 51 inches; clay loam
3C1—51 to 57 inches; fine sandy loam
3C2—57 to 60 inches; sandy clay loam

Dissimilar Minor Components

Klickson soils
Percentage of map unit: 10 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Kruse soils
Percentage of map unit: 7 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Blinn soils, stony surface
Percentage of map unit: 3 percent
Landform: Basalt plateaus, basalt escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Kronquist soils
Percentage of map unit: 3 percent
Landform: Stream terraces, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Quinnamose soils
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

5001—Brickel gravelly ashy silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 4,800 to 5,890 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 38 to 44 degrees F
Frost-free period: 30 to 60 days

Map Unit Composition

Brickel and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Brickel

Setting
Landform: Mountains, ridges
Geomorphic position (two-dimensional): Backslopes, summits, shoulders
Geomorphic position (three-dimensional): Mountain flanks, mountaintops
Downslope shape: Linear, convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over gneiss or granite
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6c
Forest Service habitat type: Subalpine fir/beargrass (CN690)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 3 inches; gravelly ashy silt loam
A2—3 to 9 inches; gravelly ashy silt loam
Bw1—9 to 19 inches; very gravelly ashy silt loam
Bw2—19 to 27 inches; very gravelly ashy silt loam
Bw3—27 to 31 inches; very cobbly ashy very fine sandy loam
2R—31 to 41 inches; bedrock

Dissimilar Minor Components

Vaywood soils
Percentage of map unit: 13 percent
Landform: Ridges, mountains

Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountaintops, mountain flanks
Downslope shape: Convex
Across-slope shape: Linear

Bouldercreek soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Brevco soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Mountaintops
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

5023—Micapeak-Rock outcrop complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,170 to 3,660 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Micapeak and similar soils: 55 percent
Rock outcrop: 20 percent
Dissimilar minor components: 25 percent

Characteristics of Micapeak

Setting
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Northeast
Aspect (range): West to southeast (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam
C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Quinnamose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Clayton soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Spokane soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes

Downslope shape: Convex
Across-slope shape: Convex

5024—Micapeak-Rock outcrop complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 3,870 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Micapeak and similar soils: 55 percent
Rock outcrop: 20 percent
Dissimilar minor components: 25 percent

Characteristics of Micapeak

Setting
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): North
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam

C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Quinnamose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Brevco soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Spokane soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

5025—Micapeak-Rock outcrop complex, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 4,000 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Micapeak and similar soils: 55 percent
Rock outcrop: 20 percent
Dissimilar minor components: 25 percent

Characteristics of Micapeak

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 30 to 55 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam
C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 30 to 55 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Quinnamose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Brevco soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes, nose slopes

Downslope shape: Convex
Across-slope shape: Convex

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Spokane soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

5026—Micapeak-Spokane complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,850 to 3,400 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Micapeak and similar soils: 40 percent
Spokane and similar soils: 30 percent
Dissimilar minor components: 30 percent

Characteristics of Micapeak

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam
C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Characteristics of Spokane

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Dissimilar Minor Components

Quinnamose soils
Percentage of map unit: 10 percent
Landform: Hills

Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Brevco soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Clayton soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5027—Micapeak-Spokane complex, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,700 to 3,600 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Micapeak and similar soils: 40 percent
Spokane and similar soils: 30 percent
Dissimilar minor components: 30 percent

Characteristics of Micapeak

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex

Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 30 to 55 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam
C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Characteristics of Spokane

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 30 to 55 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Dissimilar Minor Components

Brevco soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Quinnamose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5037—Spokane-Rock outcrop complex, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,700 to 3,000 feet
Mean annual precipitation: 17 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Spokane and similar soils: 45 percent
Rock outcrop: 25 percent
Dissimilar minor components: 30 percent

Characteristics of Spokane

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 30 to 55 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 30 to 55 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Lenz soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Brevco soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes

Downslope shape: Convex
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Convex

Micapeak soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Spens soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

5040—Spokane-Swakane complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 3,300 feet
Mean annual precipitation: 17 to 23 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Spokane and similar soils: 40 percent
Swakane and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Spokane

Setting
Landform: Ridges on mountains, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Characteristics of Swakane

Setting
Landform: Ridges, mountains, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, schist, or gneiss
Slope range: 3 to 15 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 3 inches; gravelly ashy loam
AB—3 to 9 inches; gravelly ashy loam
Bw—9 to 13 inches; very cobbly ashy sandy loam
C1—13 to 17 inches; very gravelly sandy loam
C2—17 to 19 inches; very gravelly loamy sand
R—19 to 29 inches; bedrock

Dissimilar Minor Components

Kramerhill soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5041—Spokane-Swakane complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 3,400 feet
Mean annual precipitation: 17 to 23 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Spokane and similar soils: 40 percent
Swakane and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Spokane

Setting
Landform: Ridges, mountains, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Characteristics of Swakane

Setting
Landform: Ridges on mountains, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, schist, or gneiss
Slope range: 15 to 30 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 3 inches; gravelly ashy loam
AB—3 to 9 inches; gravelly ashy loam
Bw—9 to 13 inches; very cobbly ashy sandy loam
C1—13 to 17 inches; very gravelly sandy loam
C2—17 to 19 inches; very gravelly loamy sand
R—19 to 29 inches; bedrock

Dissimilar Minor Components

Kramerhill soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Micapeak soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5053—Jacot, dry-Micapeak complex, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,300 to 4,200 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Jacot, dry, and similar soils: 40 percent
Micapeak and similar soils: 25 percent
Dissimilar minor components: 35 percent

Characteristics of Jacot, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 30 to 55 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 18 inches; ashy silt loam
2Bt1—18 to 24 inches; gravelly sandy loam
2Bt2—24 to 39 inches; gravelly sandy loam
2BC—39 to 50 inches; gravelly sandy loam
2C1—50 to 59 inches; fine gravelly loamy sand
2C2—59 to 62 inches; fine gravelly loamy sand

Characteristics of Micapeak

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 30 to 55 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam
C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Dissimilar Minor Components

Hysing soils, dry
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, mountaintops, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Boulderjud soils, dry
Percentage of map unit: 8 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Boulderjud soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

5060—Bouldercreek ashy silt loam, moist, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,970 to 3,400 feet
Mean annual precipitation: 30 to 40 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Map Unit Composition

Bouldercreek, moist, and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Bouldercreek, Moist

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Mountain bases
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4c
Forest Service habitat type: Western redcedar/ladyfern (CN540)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 4 inches; ashy silt loam
Bw1—4 to 13 inches; ashy silt loam
Bw2—13 to 21 inches; ashy silt loam
2Bw3—21 to 38 inches; very cobbly coarse sandy loam
2BC—38 to 60 inches; extremely gravelly coarse sandy loam

Dissimilar Minor Components

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Lakestarr soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Concave

Nakarna soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Hoodoo soils
Percentage of map unit: 5 percent
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

5061—Nakarna-Nakarna, dry complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,900 to 3,800 feet
Mean annual precipitation: 25 to 32 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 110 days

Map Unit Composition

Nakarna and similar soils: 40 percent
Nakarna, dry, and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Nakarna

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes

Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex, linear
Across-slope shape: Convex, concave
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from micaceous schist
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 4 inches; ashy silt loam
Bw1—4 to 15 inches; ashy silt loam
Bw2—15 to 19 inches; ashy silt loam
2Bw3—19 to 33 inches; sandy loam
2E and Bt—33 to 44 inches; paragravelly sandy loam
2BC—44 to 54 inches; paragravelly loamy coarse sand
2Cr—54 to 64 inches; bedrock

Characteristics of Nakarna, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Northwest
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from micaceous schist
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw1—6 to 23 inches; ashy silt loam
Bw2—23 to 29 inches; ashy silt loam
2Bw3—29 to 33 inches; gravelly loam
2E and Bt—33 to 42 inches; gravelly sandy loam
2BC—42 to 49 inches; sandy loam
2Cr—49 to 59 inches; bedrock

Dissimilar Minor Components

Kruse soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Bouldercreek soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Lakestarr soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Quinnamose soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes

Downslope shape: Linear
Across-slope shape: Concave

5062—Nakarna ashy silt loam, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,800 to 4,300 feet
Mean annual precipitation: 25 to 32 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Map Unit Composition

Nakarna and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Nakarna

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from micaceous schist
Slope range: 30 to 60 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 4 inches; ashy silt loam
Bw1—4 to 15 inches; ashy silt loam
Bw2—15 to 19 inches; ashy silt loam
2Bw3—19 to 33 inches; sandy loam

2E and Bt—33 to 44 inches; paragravelly sandy loam
2BC—44 to 54 inches; paragravelly loamy coarse sand
2Cr—54 to 64 inches; bedrock

Dissimilar Minor Components

Bouldercreek soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear, convex
Across-slope shape: Linear, convex

Kruse soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Nakarna soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Quinnamose soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

5067—Quinnamose-Micapeak complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 3,600 feet
Mean annual precipitation: 22 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Quinnamose and similar soils: 40 percent
Micapeak and similar soils: 30 percent
Dissimilar minor components: 30 percent

Characteristics of Quinnamose

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): Northeast to north (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite and schist
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 9 inches; ashy loam
BA—9 to 12 inches; ashy sandy loam
Bw1—12 to 31 inches; sandy loam
Bw2—31 to 51 inches; paragravelly sandy loam
BC—51 to 58 inches; very paragravelly sandy loam
Cr—58 to 68 inches; bedrock

Characteristics of Micapeak

Setting
Landform: Mountains, ridges, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam
C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Dissimilar Minor Components

Blackprince soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Mountain flanks, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Jacot soils, dry
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Kruse soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear, convex

5068—Quinnamose-Micapeak complex, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 3,800 feet
Mean annual precipitation: 22 to 35 inches

Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Quinnamose and similar soils: 45 percent
Micapeak and similar soils: 35 percent
Dissimilar minor components: 20 percent

Characteristics of Quinnamose

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): Northeast to north (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite and schist
Slope range: 30 to 55 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 9 inches; ashy loam
BA—9 to 12 inches; ashy sandy loam
Bw1—12 to 31 inches; sandy loam
Bw2—31 to 51 inches; paragravelly sandy loam
BC—51 to 58 inches; very paragravelly sandy loam
Cr—58 to 68 inches; bedrock

Characteristics of Micapeak

Setting
Landform: Mountains, ridges, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex, linear
Across-slope shape: Convex, concave
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the upper part
Slope range: 30 to 55 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 7 inches; gravelly ashy loam
Bw1—7 to 13 inches; gravelly ashy loam
Bw2—13 to 22 inches; gravelly loam
BCt—22 to 33 inches; gravelly loam
C—33 to 39 inches; gravelly sandy loam
Cr—39 to 49 inches; bedrock

Dissimilar Minor Components

Blackprince soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Mountain flanks, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Jacot soils, dry
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Kruse soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex, concave

5070—Lenz-Spokane complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills (fig. 11)
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,700 to 3,600 feet
Mean annual precipitation: 18 to 28 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lenz and similar soils: 45 percent
Spokane and similar soils: 35 percent
Dissimilar minor components: 20 percent

Characteristics of Lenz

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Figure 11.—Typical area of Lenz-Spokane complex, 3 to 15 percent slopes. These soils support a ponderosa pine/common snowberry habitat type.

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; very gravelly ashy sandy loam
A2—4 to 9 inches; very gravelly ashy sandy loam
Bw1—9 to 14 inches; very gravelly ashy sandy loam
Bw2—14 to 26 inches; very cobbly sandy loam
C—26 to 38 inches; extremely stony sandy loam
R—38 to 48 inches; bedrock

Characteristics of Spokane

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material

A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Dissimilar Minor Components

Kramerhill soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Micapeak soils
Percentage of map unit: 5 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Swakane soils
Percentage of map unit: 5 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Skalan soils
Percentage of map unit: 3 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

5071—Lenz-Spokane complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,700 to 3,600 feet
Mean annual precipitation: 18 to 28 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lenz and similar soils: 45 percent
Spokane and similar soils: 30 percent
Dissimilar minor components: 25 percent

Characteristics of Lenz

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; very gravelly ashy sandy loam
A2—4 to 9 inches; very gravelly ashy sandy loam
Bw1—9 to 14 inches; very gravelly ashy sandy loam
Bw2—14 to 26 inches; very cobbly sandy loam
C—26 to 38 inches; extremely stony sandy loam
R—38 to 48 inches; bedrock

Characteristics of Spokane

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high

Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Dissimilar Minor Components

Brevco soils
Percentage of map unit: 8 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Micapeak soils
Percentage of map unit: 5 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Swakane soils
Percentage of map unit: 5 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

5072—Lenz-Rock outcrop complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,700 to 3,600 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lenz and similar soils: 40 percent
Rock outcrop: 25 percent
Dissimilar minor components: 35 percent

Characteristics of Lenz

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; very gravelly ashy sandy loam
A2—4 to 9 inches; very gravelly ashy sandy loam
Bw1—9 to 14 inches; very gravelly ashy sandy loam
Bw2—14 to 26 inches; very cobbly sandy loam
C—26 to 38 inches; extremely stony sandy loam
R—38 to 48 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 3 to 15 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Swakane soils
Percentage of map unit: 14 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Spokane soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Clayton soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Micapeak soils
Percentage of map unit: 5 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Hardesty soils
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

5073—Lenz-Rock outcrop complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,700 to 3,600 feet
Mean annual precipitation: 18 to 24 inches

Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lenz and similar soils: 50 percent
Rock outcrop: 20 percent
Dissimilar minor components: 30 percent

Characteristics of Lenz

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; very gravelly ashy sandy loam
A2—4 to 9 inches; very gravelly ashy sandy loam
Bw1—9 to 14 inches; very gravelly ashy sandy loam
Bw2—14 to 26 inches; very cobbly sandy loam
C—26 to 38 inches; extremely stony sandy loam
R—38 to 48 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Swakane soils
Percentage of map unit: 14 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes, nose slopes

Downslope shape: Convex
Across-slope shape: Convex

Spokane soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Micapeak soils
Percentage of map unit: 6 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

5074—Lenz-Rock outcrop complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,700 to 3,600 feet
Mean annual precipitation: 18 to 24 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Lenz and similar soils: 45 percent
Rock outcrop: 25 percent
Dissimilar minor components: 30 percent

Characteristics of Lenz

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 30 to 60 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; very gravelly ashy sandy loam
A2—4 to 9 inches; very gravelly ashy sandy loam
Bw1—9 to 14 inches; very gravelly ashy sandy loam
Bw2—14 to 26 inches; very cobbly sandy loam
C—26 to 38 inches; extremely stony sandy loam
R—38 to 48 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 30 to 60 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Spokane soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Swakane soils
Percentage of map unit: 10 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Brevco soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Crests, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Micapeak soils
Percentage of map unit: 5 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

5080—Vaywood medial silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 4,400 to 5,850 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 38 to 41 degrees F
Frost-free period: 30 to 60 days

Map Unit Composition

Vaywood and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Vaywood

Setting
Landform: Ridges, mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountaintops, mountain flanks
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to south (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6c
Forest Service habitat type: Subalpine fir/queencup beadlily (CN620)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 8 inches; medial silt loam
Bw1—8 to 20 inches; medial silt loam
Bw2—20 to 24 inches; gravelly medial silt loam
2Bw3—24 to 36 inches; very cobbly sandy loam
2BCt—36 to 44 inches; extremely stony sandy loam
2C1—44 to 50 inches; extremely stony loamy sand
2C2—50 to 60 inches; extremely stony loamy sand

Dissimilar Minor Components

Vay soils
Percentage of map unit: 10 percent
Landform: Ridges, mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountaintops, mountain flanks
Downslope shape: Convex
Across-slope shape: Linear

Brevco soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountaintops
Downslope shape: Convex
Across-slope shape: Convex

Brickel soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountain flanks, mountaintops
Downslope shape: Linear, convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5081—Vaywood medial silt loam, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 4,400 to 5,850 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 38 to 41 degrees F
Frost-free period: 30 to 60 days

Map Unit Composition

Vaywood and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Vaywood

Setting
Landform: Ridges, mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountaintops, mountain flanks
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to south (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Subalpine fir/queencup beadlily (CN620)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 8 inches; medial silt loam
Bw1—8 to 20 inches; medial silt loam
Bw2—20 to 24 inches; gravelly medial silt loam
2Bw3—24 to 36 inches; very cobbly sandy loam
2BCt—36 to 44 inches; extremely stony sandy loam
2C1—44 to 50 inches; extremely stony loamy sand
2C2—50 to 60 inches; extremely stony loamy sand

Dissimilar Minor Components

Bouldercreek soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Vay soils
Percentage of map unit: 10 percent
Landform: Ridges, mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountaintops, mountain flanks
Downslope shape: Convex
Across-slope shape: Linear

Brickel soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Mountain flanks, mountaintops
Downslope shape: Linear, convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5090—Brevco-Ardtoo complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 4,800 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Brevco and similar soils: 50 percent
Ardtoo and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Brevco

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Mountaintops, crests, interfluves, nose slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
AB—4 to 8 inches; gravelly ashy sandy loam
Bw—8 to 14 inches; very gravelly ashy coarse sandy loam
BC—14 to 21 inches; very gravelly coarse sandy loam

C—21 to 37 inches; extremely gravelly coarse sandy loam
R—37 to 47 inches; bedrock

Characteristics of Ardtoo

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Mountaintops, interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 3 to 15 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
Bw1—4 to 7 inches; gravelly ashy sandy loam
Bw2—7 to 15 inches; very gravelly ashy sandy loam
Bw3—15 to 21 inches; very cobbly sandy loam
BC—21 to 37 inches; very gravelly coarse sandy loam
C—37 to 51 inches; very gravelly loamy coarse sand
Cr—51 to 61 inches; bedrock

Dissimilar Minor Components

Blackprince soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Kellerbutte soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes

Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 5 percent

5091—Brevco gravelly ashy sandy loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills (fig. 12)
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 4,800 feet
Mean annual precipitation: 20 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Brevco and similar soils: 70 percent
Dissimilar minor components: 30 percent

Figure 12.—Typical area of Brevco gravelly ashy sandy loam, 15 to 30 percent slopes. The Brevco soil supports a Douglas-fir/mallow ninebark habitat type.

Characteristics of Brevco

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
AB—4 to 8 inches; gravelly ashy sandy loam
Bw—8 to 14 inches; very gravelly ashy coarse sandy loam
BC—14 to 21 inches; very gravelly coarse sandy loam
C—21 to 37 inches; extremely gravelly coarse sandy loam
R—37 to 47 inches; bedrock

Dissimilar Minor Components

Ardtoo soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Blackprince soils
Percentage of map unit: 8 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Kellerbutte soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Quinnamose soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

5092—Brevco-Rock outcrop complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 5,000 feet
Mean annual precipitation: 20 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Brevco and similar soils: 60 percent
Rock outcrop: 15 percent
Dissimilar minor components: 25 percent

Characteristics of Brevco

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 30 to 60 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
AB—4 to 8 inches; gravelly ashy sandy loam
Bw—8 to 14 inches; very gravelly ashy coarse sandy loam
BC—14 to 21 inches; very gravelly coarse sandy loam
C—21 to 37 inches; extremely gravelly coarse sandy loam
R—37 to 47 inches; bedrock

Characteristics of Rock Outcrop

Slope range: 30 to 60 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Ardtoo soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Blackprince soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Mountain flanks, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Quinnamose soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex

5093—Blackprince-Ardtoo complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 4,000 feet

Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Blackprince and similar soils: 40 percent
Ardtoo and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Blackprince

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear, convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6s
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 5 inches; gravelly ashy coarse sandy loam
Bw—5 to 19 inches; very gravelly ashy sandy loam
Bt—19 to 26 inches; very gravelly coarse sandy loam
BCt—26 to 36 inches; very gravelly loamy coarse sand
Cr—36 to 46 inches; bedrock

Characteristics of Ardtoo

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
Bw1—4 to 7 inches; gravelly ashy sandy loam
Bw2—7 to 15 inches; very gravelly ashy sandy loam
Bw3—15 to 21 inches; very cobbly sandy loam
BC—21 to 37 inches; very gravelly coarse sandy loam
C—37 to 51 inches; very gravelly loamy coarse sand
Cr—51 to 61 inches; bedrock

Dissimilar Minor Components

Brevco soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Boulderjud soils, dry
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Boulderjud soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes

Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

5094—Blackprince-Ardtoo complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 4,000 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Blackprince and similar soils: 40 percent
Ardtoo and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Blackprince

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear, convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 30 to 60 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 5 inches; gravelly ashy coarse sandy loam
Bw—5 to 19 inches; very gravelly ashy sandy loam

Bt—19 to 26 inches; very gravelly coarse sandy loam
BCt—26 to 36 inches; very gravelly loamy coarse sand
Cr—36 to 46 inches; bedrock

Characteristics of Ardtoo

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 30 to 60 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
Bw1—4 to 7 inches; gravelly ashy sandy loam
Bw2—7 to 15 inches; very gravelly ashy sandy loam
Bw3—15 to 21 inches; very cobbly sandy loam
BC—21 to 37 inches; very gravelly coarse sandy loam
C—37 to 51 inches; very gravelly loamy coarse sand
Cr—51 to 61 inches; bedrock

Dissimilar Minor Components

Boulderjud soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Boulderjud soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes

Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Brevco soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5102—Boulderjud ashy silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and footslopes
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,320 to 4,700 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 42 to 44 degrees F
Frost-free period: 80 to 90 days

Map Unit Composition

Boulderjud and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Boulderjud

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from quartz-monzonite and other granitic rock
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw—6 to 16 inches; ashy silt loam
2Bt—16 to 26 inches; very gravelly sandy loam
2BC—26 to 36 inches; very gravelly sandy loam
2C—36 to 56 inches; very gravelly loamy sand
2Cr—56 to 66 inches; bedrock

Dissimilar Minor Components

Boulderjud soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Ardtoo soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Bouldercreek soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

5103—Boulderjud ashy silt loam, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,700 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 42 to 44 degrees F
Frost-free period: 80 to 90 days

Map Unit Composition

Boulderjud and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Boulderjud

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from quartz-monzonite and other granitic rock
Slope range: 30 to 60 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw—6 to 16 inches; ashy silt loam
2Bt—16 to 26 inches; very gravelly sandy loam
2BC—26 to 36 inches; very gravelly sandy loam
2C—36 to 56 inches; very gravelly loamy sand
2Cr—56 to 66 inches; bedrock

Dissimilar Minor Components

Boulderjud soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Ardtoo soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Bouldercreek soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

5104—Boulderjud ashy silt loam, dry, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,700 feet
Mean annual precipitation: 30 to 40 inches
Mean annual air temperature: 44 to 46 degrees F
Frost-free period: 100 to 110 days

Map Unit Composition

Boulderjud, dry, and similar soils: 60 percent
Dissimilar minor components: 40 percent

Characteristics of Boulderjud, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Northeast
Aspect (range): West to southeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss and other granitic rock
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 7 inches; ashy silt loam
Bw1—7 to 17 inches; ashy silt loam
2Bw2—17 to 29 inches; very cobbly sandy loam
2BC—29 to 36 inches; very gravelly sandy loam
2C—36 to 44 inches; very gravelly loamy coarse sand
2Cr—44 to 54 inches; bedrock

Dissimilar Minor Components

Ardtoo soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Blackprince soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5105—Boulderjud ashy silt loam, dry, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,700 feet
Mean annual precipitation: 30 to 40 inches
Mean annual air temperature: 44 to 46 degrees F
Frost-free period: 100 to 110 days

Map Unit Composition

Boulderjud, dry, and similar soils: 55 percent
Dissimilar minor components: 45 percent

Characteristics of Boulderjud, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss and other granitic rock
Slope range: 30 to 60 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 7 inches; ashy silt loam
Bw1—7 to 17 inches; ashy silt loam
2Bw2—17 to 29 inches; very cobbly sandy loam
2BC—29 to 36 inches; very gravelly sandy loam
2C—36 to 44 inches; very gravelly loamy coarse sand
2Cr—44 to 54 inches; bedrock

Dissimilar Minor Components

Ardtoo soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Blackprince soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Bouldercreek soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes

Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

5110—Bouldercreek ashy silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,880 to 4,800 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Map Unit Composition

Bouldercreek and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Bouldercreek

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material

A—3 to 9 inches; ashy silt loam
Bw1—9 to 19 inches; ashy silt loam
Bw2—19 to 25 inches; ashy silt loam
2Bw3—25 to 33 inches; very gravelly sandy loam
2BC—33 to 50 inches; extremely cobbly sandy loam
2C—50 to 63 inches; extremely stony sandy loam

Dissimilar Minor Components

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Kellerbutte soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5111—Bouldercreek ashy silt loam, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,600 to 5,000 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Map Unit Composition

Bouldercreek and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Bouldercreek

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 9 inches; ashy silt loam
Bw1—9 to 19 inches; ashy silt loam
Bw2—19 to 25 inches; ashy silt loam
2Bw3—25 to 33 inches; very gravelly sandy loam
2BC—33 to 50 inches; extremely cobbly sandy loam
2C—50 to 63 inches; extremely stony sandy loam

Dissimilar Minor Components

Nakarna soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Boulderjud soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Kellerbutte soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5112—Bouldercreek ashy silt loam, dry, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,480 to 4,900 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 80 to 110 days

Map Unit Composition

Bouldercreek, dry, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Bouldercreek, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): West
Aspect (range): Southeast to northwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss and schist
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 7 inches; ashy silt loam
Bw1—7 to 15 inches; ashy silt loam
Bw2—15 to 23 inches; ashy silt loam
2Bw3—23 to 27 inches; very gravelly sandy loam
2BC—27 to 54 inches; very gravelly sandy loam
2C—54 to 63 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Bouldercreek soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Brevco soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Mountaintops, crests, interfluves, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Jacot soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Kellerbutte soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5113—Bouldercreek, dry-Kellerbutte complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,400 to 5,000 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 80 to 120 days

Map Unit Composition

Bouldercreek, dry, and similar soils: 40 percent
Kellerbutte and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Bouldercreek, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): West
Aspect (range): Southeast to northwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss and schist
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 7 inches; ashy silt loam
Bw1—7 to 15 inches; ashy silt loam
Bw2—15 to 23 inches; ashy silt loam
2Bw3—23 to 27 inches; very gravelly sandy loam
2BC—27 to 54 inches; very gravelly sandy loam
2C—54 to 63 inches; extremely cobbly sandy loam

Characteristics of Kellerbutte

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 30 to 60 percent
Depth to restrictive feature: 60 to 80 inches to lithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
Bw1—5 to 11 inches; ashy silt loam
Bw2—11 to 17 inches; gravelly ashy silt loam
2Bw3—17 to 23 inches; very gravelly sandy loam
2BC—23 to 45 inches; very cobbly sandy loam
2C—45 to 63 inches; extremely cobbly loamy sand
2R—63 to 73 inches; bedrock

Dissimilar Minor Components

Bouldercreek soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Brevco soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Mountaintops, crests, interfluves, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Jacot soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

5114—Bouldercreek-Rock outcrop-Bouldercreek, dry complex, 30 to 70 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,600 to 5,000 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 110 days

Map Unit Composition

Bouldercreek and similar soils: 40 percent
Rock outcrop: 25 percent
Bouldercreek, dry, and similar soils: 20 percent
Dissimilar minor components: 15 percent

Characteristics of Bouldercreek

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): East
Aspect (range): Northwest to southeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss
Slope range: 30 to 70 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 8
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 9 inches; ashy silt loam
Bw1—9 to 19 inches; ashy silt loam
Bw2—19 to 25 inches; ashy silt loam
2Bw3—25 to 33 inches; very gravelly sandy loam
2BC—33 to 50 inches; extremely cobbly sandy loam
2C—50 to 63 inches; extremely stony sandy loam

Characteristics of Rock Outcrop

Slope range: 30 to 70 percent
Land capability subclass (nonirrigated): 8

Characteristics of Bouldercreek, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Footslopes, backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss and schist
Slope range: 30 to 70 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 8
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 7 inches; ashy silt loam
Bw1—7 to 15 inches; ashy silt loam
Bw2—15 to 23 inches; ashy silt loam
2Bw3—23 to 27 inches; very gravelly sandy loam
2BC—27 to 54 inches; very gravelly sandy loam
2C—54 to 63 inches; extremely cobbly sandy loam

Dissimilar Minor Components

Brevco soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Jacot soils
Percentage of map unit: 5 percent
Landform: Mountains

Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Kellerbutte soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

5120—Kellerbutte-Boulderjud complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,100 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 80 to 120 days

Map Unit Composition

Kellerbutte and similar soils: 40 percent
Boulderjud and similar soils: 30 percent
Dissimilar minor components: 30 percent

Characteristics of Kellerbutte

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear, convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 15 to 30 percent
Depth to restrictive feature: 60 to 80 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
Bw1—5 to 11 inches; ashy silt loam
Bw2—11 to 17 inches; gravelly ashy silt loam
2Bw3—17 to 23 inches; very gravelly sandy loam
2BC—23 to 45 inches; very cobbly sandy loam
2C—45 to 63 inches; extremely cobbly loamy sand
2R—63 to 73 inches; bedrock

Characteristics of Boulderjud

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Northeast
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from quartz-monzonite and other granitic rock
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw—6 to 16 inches; ashy silt loam
2Bt—16 to 26 inches; very gravelly sandy loam
2BC—26 to 36 inches; very gravelly sandy loam
2C—36 to 56 inches; very gravelly loamy sand
2Cr—56 to 66 inches; bedrock

Dissimilar Minor Components

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Micapeak soils
Percentage of map unit: 10 percent
Landform: Ridges, hills, mountains
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Kruse soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Nakarna soils
Percentage of map unit: 3 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex, linear
Across-slope shape: Convex, concave

Brevco soils
Percentage of map unit: 2 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

5121—Kellerbutte-Brevco complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills (fig. 13)
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 3,500 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Figure 13.—Typical area of Kellerbutte-Brevco complex, 15 to 30 percent slopes, in a cutover area. The Kellerbutte soil supports a grand fir/mallow ninebark habitat type.

Map Unit Composition

Kellerbutte and similar soils: 45 percent
Brevco and similar soils: 30 percent
Dissimilar minor components: 25 percent

Characteristics of Kellerbutte

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): Northeast to southeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 15 to 30 percent
Depth to restrictive feature: More than 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
Bw1—5 to 11 inches; ashy silt loam
Bw2—11 to 17 inches; gravelly ashy silt loam
2Bw3—17 to 23 inches; very gravelly sandy loam
2BC—23 to 45 inches; very cobbly sandy loam
2C—45 to 63 inches; extremely cobbly loamy sand
2R—63 to 73 inches; bedrock

Characteristics of Brevco

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear, convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
AB—4 to 8 inches; gravelly ashy sandy loam
Bw—8 to 14 inches; very gravelly ashy coarse sandy loam
BC—14 to 21 inches; very gravelly coarse sandy loam
C—21 to 37 inches; extremely gravelly coarse sandy loam
R—37 to 47 inches; bedrock

Dissimilar Minor Components

Ardtoo soils
Percentage of map unit: 13 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Mountaintops, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

5122—Kellerbutte-Brevco complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,700 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Kellerbutte and similar soils: 40 percent
Brevco and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Kellerbutte

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear, convex
Aspect (representative): Southeast
Aspect (range): Northeast to southeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 30 to 60 percent
Depth to restrictive feature: 60 to 80 inches to lithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
Bw1—5 to 11 inches; ashy silt loam
Bw2—11 to 17 inches; gravelly ashy silt loam
2Bw3—17 to 23 inches; very gravelly sandy loam
2BC—23 to 45 inches; very cobbly sandy loam
2C—45 to 63 inches; extremely cobbly loamy sand
2R—63 to 73 inches; bedrock

Characteristics of Brevco

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, nose slopes
Downslope shape: Linear, convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 30 to 60 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 4 inches; gravelly ashy sandy loam
AB—4 to 8 inches; gravelly ashy sandy loam
Bw—8 to 14 inches; very gravelly ashy coarse sandy loam
BC—14 to 21 inches; very gravelly coarse sandy loam

C—21 to 37 inches; extremely gravelly coarse sandy loam
R—37 to 47 inches; bedrock

Dissimilar Minor Components

Ardtoo soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 5 percent

5123—Kellerbutte-Boulderjud, dry, complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,400 to 4,800 feet
Mean annual precipitation: 30 to 40 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Kellerbutte and similar soils: 40 percent
Boulderjud, dry, and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Kellerbutte

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear, convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 30 to 60 percent

Depth to restrictive feature: 60 to 80 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
Bw1—5 to 11 inches; ashy silt loam
Bw2—11 to 17 inches; gravelly ashy silt loam
2Bw3—17 to 23 inches; very gravelly sandy loam
2BC—23 to 45 inches; very cobbly sandy loam
2C—45 to 63 inches; extremely cobbly loamy sand
2R—63 to 73 inches; bedrock

Characteristics of Boulderjud, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss and other granitic rock
Slope range: 30 to 60 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 7 inches; ashy silt loam

Bw1—7 to 17 inches; ashy silt loam
2Bw2—17 to 29 inches; very cobbly sandy loam
2BC—29 to 36 inches; very gravelly sandy loam
2C—36 to 44 inches; very gravelly loamy coarse sand
2Cr—44 to 54 inches; bedrock

Dissimilar Minor Components

Blackprince soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, interfluves, crests, nose slopes
Downslope shape: Linear, convex
Across-slope shape: Convex

Ardtoo soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex

Boulderjud soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

5130—Brodeer ashy silt loam, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,300 to 4,000 feet
Mean annual precipitation: 30 to 40 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Map Unit Composition

Brodeer and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Brodeer

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Northwest
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over residuum derived from quartz-monzonite and other granitic rock
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Western hemlock/wild ginger (CN575)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; ashy silt loam
Bw1—4 to 8 inches; ashy silt loam
Bw2—8 to 18 inches; ashy silt loam
Bw3—18 to 26 inches; ashy silt loam
2Bt1—26 to 32 inches; fine gravelly sandy loam
2Bt2—32 to 47 inches; fine gravelly loam
2BC—47 to 61 inches; fine gravelly sandy loam

Dissimilar Minor Components

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Jacot soils, dry
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Kruse soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Lakestarr soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

5140—Jacot-Hysing complex, dry, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,600 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 90 to 110 days

Map Unit Composition

Jacot, dry, and similar soils: 50 percent
Hysing, dry, and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Jacot, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 18 inches; ashy silt loam
2Bt1—18 to 24 inches; gravelly sandy loam
2Bt2—24 to 39 inches; gravelly sandy loam
2BC—39 to 50 inches; gravelly sandy loam
2C1—50 to 59 inches; fine gravelly loamy sand
2C2—59 to 62 inches; fine gravelly loamy sand

Characteristics of Hysing, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountaintops, mountain bases, interfluves, base slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 3 to 15 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw1—6 to 18 inches; ashy silt loam
Bw2—18 to 28 inches; ashy silt loam
2BC—28 to 31 inches; very gravelly sandy loam
2C—31 to 47 inches; very gravelly coarse sand
2Cr—47 to 57 inches; bedrock

Dissimilar Minor Components

Brodeer soils
Percentage of map unit: 10 percent
Landform: Hills

Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Convex

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Kruse soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

5141—Jacot-Hysing complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,600 feet
Mean annual precipitation: 25 to 42 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Map Unit Composition

Jacot and similar soils: 50 percent
Hysing and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Jacot

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Northwest
Aspect (range): West to southwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high

Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 18 inches; ashy silt loam
2Bt1—18 to 24 inches; gravelly sandy loam
2Bt2—24 to 39 inches; gravelly sandy loam
2BC—39 to 50 inches; gravelly sandy loam
2C1—50 to 59 inches; fine gravelly loamy sand
2C2—59 to 62 inches; fine gravelly loamy sand

Characteristics of Hysing

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Northwest
Aspect (range): West to southwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw1—6 to 18 inches; ashy silt loam

Bw2—18 to 28 inches; ashy silt loam
2BC—28 to 31 inches; very gravelly sandy loam
2C—31 to 47 inches; very gravelly coarse sand
2Cr—47 to 57 inches; bedrock

Dissimilar Minor Components

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Brodeer soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Convex

5142—Jacot-Hysing complex, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,600 feet
Mean annual precipitation: 25 to 42 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Map Unit Composition

Jacot and similar soils: 50 percent
Hysing and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Jacot

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex

Across-slope shape: Convex
Aspect (representative): Northwest
Aspect (range): West to southwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 30 to 55 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 18 inches; ashy silt loam
2Bt1—18 to 24 inches; gravelly sandy loam
2Bt2—24 to 39 inches; gravelly sandy loam
2BC—39 to 50 inches; gravelly sandy loam
2C1—50 to 59 inches; fine gravelly loamy sand
2C2—59 to 62 inches; fine gravelly loamy sand

Characteristics of Hysing

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Northwest
Aspect (range): West to southwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 30 to 55 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw1—6 to 18 inches; ashy silt loam
Bw2—18 to 28 inches; ashy silt loam
2BC—28 to 31 inches; very gravelly sandy loam
2C—31 to 47 inches; very gravelly coarse sand
2Cr—47 to 57 inches; bedrock

Dissimilar Minor Components

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Hysing soils, dry
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

5143—Jacot-Hysing complex, dry, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 4,600 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 90 to 110 days

Map Unit Composition

Jacot, dry, and similar soils: 50 percent
Hysing, dry, and similar soils: 25 percent
Dissimilar minor components: 25 percent

Characteristics of Jacot, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 18 inches; ashy silt loam
2Bt1—18 to 24 inches; gravelly sandy loam
2Bt2—24 to 39 inches; gravelly sandy loam
2BC—39 to 50 inches; gravelly sandy loam
2C1—50 to 59 inches; fine gravelly loamy sand
2C2—59 to 62 inches; fine gravelly loamy sand

Characteristics of Hysing, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountaintops, mountain bases, interfluves, base slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw1—6 to 18 inches; ashy silt loam
Bw2—18 to 28 inches; ashy silt loam
2BC—28 to 31 inches; very gravelly sandy loam
2C—31 to 47 inches; very gravelly coarse sand
2Cr—47 to 57 inches; bedrock

Dissimilar Minor Components

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Boulderjud soils, dry
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

5144—Jacot-Hysing complex, dry, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,600 to 4,000 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 90 to 110 days

Map Unit Composition

Jacot, dry, and similar soils: 45 percent
Hysing, dry, and similar soils: 25 percent
Dissimilar minor components: 30 percent

Characteristics of Jacot, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 30 to 55 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 18 inches; ashy silt loam
2Bt1—18 to 24 inches; gravelly sandy loam
2Bt2—24 to 39 inches; gravelly sandy loam
2BC—39 to 50 inches; gravelly sandy loam
2C1—50 to 59 inches; fine gravelly loamy sand
2C2—59 to 62 inches; fine gravelly loamy sand

Characteristics of Hysing, Dry

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 30 to 55 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; ashy silt loam
Bw1—6 to 18 inches; ashy silt loam
Bw2—18 to 28 inches; ashy silt loam
2BC—28 to 31 inches; very gravelly sandy loam
2C—31 to 47 inches; very gravelly coarse sand
2Cr—47 to 57 inches; bedrock

Dissimilar Minor Components

Boulderjud soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Boulderjud soils, dry
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Jacot soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Convex
Across-slope shape: Convex

5211—Kruse ashy silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,400 to 3,220 feet
Mean annual precipitation: 25 to 38 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Kruse and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Kruse

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, and schist
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material

A—2 to 10 inches; ashy silt loam
BA—10 to 15 inches; ashy sandy loam
Bt1—15 to 23 inches; gravelly sandy clay loam
Bt2—23 to 32 inches; gravelly sandy clay loam
Bt3—32 to 46 inches; gravelly sandy clay loam
BC—46 to 52 inches; gravelly sandy loam
C—52 to 61 inches; gravelly sandy loam

Dissimilar Minor Components

Keeler soils, dry
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Micapeak soils
Percentage of map unit: 10 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

5212—Kruse ashy silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 3,500 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Kruse and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Kruse

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear

Across-slope shape: Concave
Aspect (representative): East
Aspect (range): Northeast to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, and schist
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 10 inches; ashy silt loam
BA—10 to 15 inches; ashy sandy loam
Bt1—15 to 23 inches; gravelly sandy clay loam
Bt2—23 to 32 inches; gravelly sandy clay loam
Bt3—32 to 46 inches; gravelly sandy clay loam
BC—46 to 52 inches; gravelly sandy loam
C—52 to 61 inches; gravelly sandy loam

Dissimilar Minor Components

Keeler soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Micapeak soils
Percentage of map unit: 10 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Crests, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Quinnamose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes

Downslope shape: Linear
Across-slope shape: Concave

5213—Kruse ashy silt loam, 30 to 55 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 3,500 feet
Mean annual precipitation: 25 to 32 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Kruse and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Kruse

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): East
Aspect (range): North to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, and schist
Slope range: 30 to 55 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 10 inches; ashy silt loam
BA—10 to 15 inches; ashy sandy loam
Bt1—15 to 23 inches; gravelly sandy clay loam
Bt2—23 to 32 inches; gravelly sandy clay loam
Bt3—32 to 46 inches; gravelly sandy clay loam

BC—46 to 52 inches; gravelly sandy loam
C—52 to 61 inches; gravelly sandy loam

Dissimilar Minor Components

Keeler soils, dry
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Micapeak soils
Percentage of map unit: 10 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Crests, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Quinnamose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Boulderjud soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

5310—Kramerhill ashy loam, 3 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,900 to 3,100 feet
Mean annual precipitation: 15 to 23 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Kramerhill and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Kramerhill

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes

Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Colluvium and residuum derived from saprolitic gneiss, quartzite, and Latah Formation mixed with loess and volcanic ash in the upper part
Slope range: 3 to 15 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy loam
A2—5 to 9 inches; ashy loam
BE—9 to 19 inches; gravelly loam
Bt1—19 to 30 inches; gravelly sandy clay loam
Bt2—30 to 46 inches; gravelly sandy clay loam
Cr—46 to 56 inches; bedrock

Dissimilar Minor Components

Spokane soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Swakane soils
Percentage of map unit: 10 percent
Landform: Hills, ridges
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Clayton soils
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

5313—Kramerhill-Spokane complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 3,100 feet
Mean annual precipitation: 15 to 25 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Kramerhill and similar soils: 45 percent
Spokane and similar soils: 30 percent
Dissimilar minor components: 25 percent

Characteristics of Kramerhill

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Colluvium and residuum derived from saprolitic gneiss, quartzite, and Latah Formation mixed with loess and volcanic ash in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy loam
A2—5 to 9 inches; ashy loam

BE—9 to 19 inches; gravelly loam
Bt1—19 to 30 inches; gravelly sandy clay loam
Bt2—30 to 46 inches; gravelly sandy clay loam
Cr—46 to 56 inches; bedrock

Characteristics of Spokane

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 8 to 25 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Dissimilar Minor Components

Skalan soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Lenz soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Clayton soils
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Micapeak soils
Percentage of map unit: 3 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Kruse soils
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 2 percent

5314—Spokane-Kramerhill complex, 25 to 40 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 3,200 feet
Mean annual precipitation: 17 to 23 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Spokane and similar soils: 40 percent
Kramerhill and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Spokane

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist

Slope range: 25 to 40 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Characteristics of Kramerhill

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Mountain flanks, interfluves, base slopes
Downslope shape: Linear, convex
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from saprolitic gneiss, quartzite, and Latah Formation mixed with loess and volcanic ash in the upper part
Slope range: 25 to 40 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy loam
A2—5 to 9 inches; ashy loam
BE—9 to 19 inches; gravelly loam

Bt1—19 to 30 inches; gravelly sandy clay loam
Bt2—30 to 46 inches; gravelly sandy clay loam
Cr—46 to 56 inches; bedrock

Dissimilar Minor Components

Lenz soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Mountain flanks, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Skalan soils
Percentage of map unit: 10 percent
Landform: Mountains, ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Mountain flanks, side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 3 percent

Micapeak soils
Percentage of map unit: 2 percent
Landform: Mountains, ridges, hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks, crests, side slopes
Downslope shape: Convex
Across-slope shape: Convex

5321—Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 3,100 feet
Mean annual precipitation: 17 to 23 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Kramerhill and similar soils: 40 percent
Uhlig and similar soils: 25 percent
Skalan and similar soils: 15 percent
Dissimilar minor components: 20 percent

Characteristics of Kramerhill

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear

Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from saprolitic gneiss, quartzite, and Latah Formation mixed with loess and volcanic ash in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy loam
A2—5 to 9 inches; ashy loam
BE—9 to 19 inches; gravelly loam
Bt1—19 to 30 inches; gravelly sandy clay loam
Bt2—30 to 46 inches; gravelly sandy clay loam
Cr—46 to 56 inches; bedrock

Characteristics of Uhlig

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): West
Aspect (range): Northeast to north (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap1—0 to 4 inches; ashy silt loam
Ap2—4 to 10 inches; ashy silt loam
A—10 to 18 inches; ashy loam
2Bt1—18 to 32 inches; loam
2Bt2—32 to 42 inches; loam
2C—42 to 60 inches; very fine sandy loam

Characteristics of Skalan

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 8 to 25 percent
Depth to restrictive feature: 20 to 36 inches to paralithic bedrock (where present), 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 9 inches; gravelly ashy loam
BA—9 to 16 inches; gravelly ashy loam
Bt1—16 to 23 inches; very gravelly clay loam
Bt2—23 to 31 inches; very gravelly loam
Cr—31 to 36 inches; bedrock
R—36 to 46 inches; bedrock

Dissimilar Minor Components

Glenrose soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Bong soils, moist
Percentage of map unit: 5 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Endoaquolls, deep
Percentage of map unit: 5 percent
Landform: Seeps of hillsides
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Concave

5322—Kramerhill-Skalan complex, 15 to 40 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,200 to 3,000 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 45 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Kramerhill and similar soils: 55 percent
Skalan and similar soils: 20 percent
Dissimilar minor components: 25 percent

Characteristics of Kramerhill

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Colluvium and residuum derived from saprolitic gneiss, quartzite, and Latah Formation mixed with loess and volcanic ash in the upper part
Slope range: 15 to 40 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 5 inches; ashy loam
A2—5 to 9 inches; ashy loam
BE—9 to 19 inches; gravelly loam
Bt1—19 to 30 inches; gravelly sandy clay loam
Bt2—30 to 46 inches; gravelly sandy clay loam
Cr—46 to 56 inches; bedrock

Characteristics of Skalan

Setting
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 15 to 40 percent
Depth to restrictive feature: 20 to 36 inches to paralithic bedrock (where present), 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 9 inches; gravelly ashy loam
BA—9 to 16 inches; gravelly ashy loam
Bt1—16 to 23 inches; very gravelly clay loam
Bt2—23 to 31 inches; very gravelly loam
Cr—31 to 36 inches; bedrock
R—36 to 46 inches; bedrock

Dissimilar Minor Components

Spokane soils
Percentage of map unit: 10 percent
Landform: Hills

Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Uhlig soils
Percentage of map unit: 10 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Endoaquolls, deep
Percentage of map unit: 3 percent
Landform: Seeps of hillsides
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 2 percent

5412—Keeler fine gravelly ashy loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills (fig. 14)
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,300 to 3,700 feet
Mean annual precipitation: 25 to 38 inches
Mean annual air temperature: 41 to 44 degrees F
Frost-free period: 80 to 110 days

Map Unit Composition

Keeler and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Keeler

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Mountaintops, interfluves
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from granite
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high

Figure 14.—Typical area of Keeler ashy loam, 8 to 15 percent slopes. The Keeler soil supports a western hemlock/queencup beadlily habitat type.

Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; fine gravelly ashy loam
BA—4 to 9 inches; fine gravelly ashy loam
BtE—9 to 16 inches; fine gravelly loam
Bt—16 to 30 inches; fine gravelly sandy loam

Bt/E—30 to 50 inches; fine gravelly sandy clay loam
BCt—50 to 60 inches; very gravelly coarse sandy loam

Dissimilar Minor Components

Kruse soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Micapeak soils
Percentage of map unit: 8 percent
Landform: Mountains, ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Mountaintops, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Santa soils
Percentage of map unit: 3 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Kronquist soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Lakestarr soils
Percentage of map unit: 2 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

5413—Keeler-Kruse complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,300 to 3,500 feet
Mean annual precipitation: 25 to 38 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 80 to 120 days

Map Unit Composition

Keeler and similar soils: 45 percent
Kruse and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Keeler

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from granite
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; fine gravelly ashy loam
BA—4 to 9 inches; fine gravelly ashy loam
BtE—9 to 16 inches; fine gravelly loam
Bt—16 to 30 inches; fine gravelly sandy loam
Bt/E—30 to 50 inches; fine gravelly sandy clay loam
BCt—50 to 60 inches; very gravelly coarse sandy loam

Characteristics of Kruse

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, and schist
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 10 inches; ashy silt loam
BA—10 to 15 inches; ashy sandy loam
Bt1—15 to 23 inches; gravelly sandy clay loam
Bt2—23 to 32 inches; gravelly sandy clay loam
Bt3—32 to 46 inches; gravelly sandy clay loam
BC—46 to 52 inches; gravelly sandy loam
C—52 to 61 inches; gravelly sandy loam

Dissimilar Minor Components

Bouldercreek soils, dry
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear, convex

Lakestarr soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Micapeak soils
Percentage of map unit: 5 percent
Landform: Ridges, hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Crests, side slopes

Downslope shape: Convex
Across-slope shape: Convex

5414—Keeler-Kruse complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,300 to 3,600 feet
Mean annual precipitation: 25 to 38 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 80 to 120 days

Map Unit Composition

Keeler and similar soils: 40 percent
Kruse and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Keeler

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from granite
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; fine gravelly ashy loam
BA—4 to 9 inches; fine gravelly ashy loam
BtE—9 to 16 inches; fine gravelly loam
Bt—16 to 30 inches; fine gravelly sandy loam
Bt/E—30 to 50 inches; fine gravelly sandy clay loam
BCt—50 to 60 inches; very gravelly coarse sandy loam

Characteristics of Kruse

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, and schist
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 10 inches; ashy silt loam
BA—10 to 15 inches; ashy sandy loam
Bt1—15 to 23 inches; gravelly sandy clay loam
Bt2—23 to 32 inches; gravelly sandy clay loam
Bt3—32 to 46 inches; gravelly sandy clay loam
BC—46 to 52 inches; gravelly sandy loam
C—52 to 61 inches; gravelly sandy loam

Dissimilar Minor Components

Lakestarr soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Micapeak soils
Percentage of map unit: 10 percent
Landform: Ridges, hills, mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Crests, side slopes

Downslope shape: Convex
Across-slope shape: Convex

Bouldercreek soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Linear

5512—Santa ashy silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills (fig. 15)
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,510 to 3,200 feet
Mean annual precipitation: 25 to 37 inches
Mean annual air temperature: 43 to 46 degrees F
Frost-free period: 105 to 120 days

Map Unit Composition

Santa and similar soils: 80 percent
Dissimilar minor components: 20 percent

Figure 15.—Typical area of Santa ashy silt loam, 8 to 15 percent slopes, under oats. In uncultivated areas, the Santa soil supports a grand fir/mallow ninebark habitat type.

Characteristics of Santa

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex, concave
Across-slope shape: Linear, convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 8 to 22 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Ap—0 to 8 inches; ashy silt loam
Bw—8 to 19 inches; silt loam
E—19 to 29 inches; silt loam
Btxb1—29 to 38 inches; silt loam
Btxb2—38 to 59 inches; silt loam

Dissimilar Minor Components

Cavendish soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex

Crumarine soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Reggear soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Concave
Across-slope shape: Linear, convex

Santa soils, dry
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex, concave
Across-slope shape: Linear, convex

5513—Santa ashy silt loam, 15 to 35 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,310 to 3,000 feet
Mean annual precipitation: 23 to 37 inches
Mean annual air temperature: 45 to 46 degrees F
Frost-free period: 105 to 125 days

Map Unit Composition

Santa and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Santa

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Northeast
Aspect (range): Southwest to southeast (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part
Slope range: 15 to 35 percent
Depth to restrictive feature: 20 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 25 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oe—0 to 1 inch; moderately decomposed plant material
A1—1 to 5 inches; ashy silt loam
A2—5 to 9 inches; ashy silt loam
Bw—9 to 16 inches; silt loam
EB—16 to 25 inches; silt loam
E—25 to 27 inches; silt
Btx/E—27 to 39 inches; silty clay loam
Btx—39 to 65 inches; silty clay loam

Dissimilar Minor Components

Kruse soils
Percentage of map unit: 10 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Taney soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Concave
Across-slope shape: Linear

5602—Lakestarr-Santa complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,350 to 3,100 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 120 days

Map Unit Composition

Lakestarr and similar soils: 40 percent
Santa and similar soils: 30 percent
Dissimilar minor components: 30 percent

Characteristics of Lakestarr

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Aspect (representative): Northwest
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash and loess over colluvium derived from pre-Tertiary felsic gneiss, schist, and till
Slope range: 8 to 15 percent
Depth to restrictive feature: 40 to 60 inches to densic material
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Very low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 15 to 20 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 15 inches; ashy silt loam
2E/Bt—15 to 24 inches; silt loam
2Btc—24 to 39 inches; loam
2E/Btxc—39 to 47 inches; loam
3Cdc1—47 to 55 inches; loam
3Cdc2—55 to 65 inches; sandy clay loam

Characteristics of Santa

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 25 inches, perched (see Water Features table)
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oe—0 to 1 inch; moderately decomposed plant material
A1—1 to 5 inches; ashy silt loam
A2—5 to 9 inches; ashy silt loam
Bw—9 to 16 inches; silt loam
EB—16 to 25 inches; silt loam
E—25 to 27 inches; silt
Btx/Ex—27 to 39 inches; silty clay loam
Btx—39 to 65 inches; silty clay loam

Dissimilar Minor Components

Keeler soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain bases, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Kruse soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Concave

Lakestarr soils, dry
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Fluvaquents, frigid
Percentage of map unit: 3 percent
Landform: Low stream terraces, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Lovell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

5603—Lakestarr-Santa complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,350 to 3,100 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 120 days

Map Unit Composition

Lakestarr and similar soils: 40 percent
Santa and similar soils: 25 percent
Dissimilar minor components: 35 percent

Characteristics of Lakestarr

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Northwest
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash and loess over colluvium derived from pre-Tertiary felsic gneiss, schist, and till
Slope range: 15 to 30 percent
Depth to restrictive feature: 40 to 60 inches to densic material
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Very low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 15 to 20 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Western hemlock/queencup beadlily (CN570)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 10 inches; ashy silt loam
Bw—10 to 15 inches; ashy silt loam
2E/Bt—15 to 24 inches; silt loam
2Btc—24 to 39 inches; loam
2E/Btx—39 to 47 inches; loam
3Cdc1—47 to 55 inches; loam
3Cdc2—55 to 65 inches; sandy clay loam

Characteristics of Santa

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 25 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oe—0 to 1 inch; moderately decomposed plant material
A1—1 to 5 inches; ashy silt loam
A2—5 to 9 inches; ashy silt loam
Bw—9 to 16 inches; silt loam
EB—16 to 25 inches; silt loam
E—25 to 27 inches; silt
Btx/Ex—27 to 39 inches; silty clay loam
Btx—39 to 65 inches; silty clay loam

Dissimilar Minor Components

Keeler soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Kruse soils
Percentage of map unit: 10 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Linear
Across-slope shape: Convex

Bouldercreek soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Mountain bases, mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Lakestarr soils, dry
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Taney soils
Percentage of map unit: 5 percent
Landform: Loess hills on Columbia basalt plateaus
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Linear, concave
Across-slope shape: Linear

6001—Athena silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,750 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 48 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Athena and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Athena

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 4 inches; silt loam
A1—4 to 8 inches; silt loam
A2—8 to 13 inches; silt loam
ABt—13 to 26 inches; silt loam
Bt1—26 to 42 inches; silt loam
Bt2—42 to 54 inches; silt loam
Bt3—54 to 60 inches; silt loam

Dissimilar Minor Components

Broadax soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Mondovi soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Caldwell soils
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Narcisse soils
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

6002—Athena silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,100 to 2,750 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 48 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Athena and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Athena

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes, base slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 4 inches; silt loam
A1—4 to 8 inches; silt loam
A2—8 to 13 inches; silt loam
ABt—13 to 26 inches; silt loam
Bt1—26 to 42 inches; silt loam
Bt2—42 to 54 inches; silt loam
Bt3—54 to 60 inches; silt loam

Dissimilar Minor Components

Lance soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes

Downslope shape: Convex
Across-slope shape: Convex

Reardan soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Hanning soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Narcisse soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Mondovi soils
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Downslope shape: Linear
Across-slope shape: Linear

6003—Athena-Lance complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Channeled scablands (fig. 16)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,750 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Athena and similar soils: 55 percent
Lance and similar soils: 25 percent
Dissimilar minor components: 20 percent

Figure 16.—Typical area of Athena-Lance complex, 15 to 30 percent slopes, under small grain.

Characteristics of Athena

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 4 inches; silt loam
A1—4 to 8 inches; silt loam
A2—8 to 13 inches; silt loam
ABt—13 to 26 inches; silt loam
Bt1—26 to 42 inches; silt loam
Bt2—42 to 54 inches; silt loam
Bt3—54 to 60 inches; silt loam

Characteristics of Lance

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 9 inches; silt loam
Bkq1—9 to 14 inches; extremely parachannery silt loam
Bkq2—14 to 22 inches; very parachannery silt loam
Bkq3—22 to 40 inches; silt loam
Bkq4—40 to 60 inches; silt loam

Dissimilar Minor Components

Reardan soils
Percentage of map unit: 7 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Staley soils
Percentage of map unit: 7 percent
Landform: Loess hills

Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Hanning soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Mondovi soils
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Downslope shape: Linear
Across-slope shape: Linear

6004—Athena-Lance complex, 30 to 60 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,750 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Athena and similar soils: 40 percent
Lance and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Athena

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Northwest
Aspect (range): West to southeast (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 30 to 60 percent

Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 4 inches; silt loam
A1—4 to 8 inches; silt loam
A2—8 to 13 inches; silt loam
ABt—13 to 26 inches; silt loam
Bt1—26 to 42 inches; silt loam
Bt2—42 to 54 inches; silt loam
Bt3—54 to 60 inches; silt loam

Characteristics of Lance

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 30 to 60 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 9 inches; silt loam
Bkq1—9 to 14 inches; extremely parachannery silt loam
Bkq2—14 to 22 inches; very parachannery silt loam
Bkq3—22 to 40 inches; silt loam
Bkq4—40 to 60 inches; silt loam

Dissimilar Minor Components

Reardan soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Staley soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Hanning soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Broadax soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

6010—Freeman ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,660 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Freeman and similar soils: 65 percent
Dissimilar minor components: 35 percent

Characteristics of Freeman

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear

Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash in the upper part over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 14 to 21 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 2 inches; ashy silt loam
Ap2—2 to 9 inches; ashy silt loam
E—9 to 15 inches; silt loam
Ec—15 to 21 inches; silt loam
Btb/E—21 to 29 inches; silty clay loam
Btb1—29 to 39 inches; silty clay loam
Btb2—39 to 53 inches; silty clay loam
Btb3—53 to 62 inches; silty clay loam

Dissimilar Minor Components

Driscoll soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Larkin soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Carlinton soils, dry
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves

Downslope shape: Linear
Across-slope shape: Linear

Santa soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Lovell soils
Percentage of map unit: 4 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Aquepts, frigid
Percentage of map unit: 1 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

6011—Freeman ashy silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus (fig. 17)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,660 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Freeman and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Freeman

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash in the upper part over older loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high

Figure 17.—Typical area of Freeman ashy silt loam, 8 to 15 percent slopes, under bluegrass stubble. In uncultivated areas, the Freeman soil supports a ponderosa pine/common snowberry habitat type.

Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 14 to 21 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 2 inches; ashy silt loam
Ap2—2 to 9 inches; ashy silt loam
E—9 to 15 inches; silt loam
Ec—15 to 21 inches; silt loam
Btb/E—21 to 29 inches; silty clay loam
Btb1—29 to 39 inches; silty clay loam
Btb2—39 to 53 inches; silty clay loam
Btb3—53 to 62 inches; silty clay loam

Dissimilar Minor Components

Carlinton soils, dry
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Driscoll soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Larkin soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Lovell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Endoaquolls
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

6012—Freeman ashy silt loam, 15 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,660 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Freeman and similar soils: 60 percent
Dissimilar minor components: 40 percent

Characteristics of Freeman

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash in the upper part over older loess

Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 14 to 21 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 2 inches; ashy silt loam
Ap2—2 to 9 inches; ashy silt loam
E—9 to 15 inches; silt loam
Ec—15 to 21 inches; silt loam
Btb/E—21 to 29 inches; silty clay loam
Btb1—29 to 39 inches; silty clay loam
Btb2—39 to 53 inches; silty clay loam
Btb3—53 to 62 inches; silty clay loam

Dissimilar Minor Components

Carlinton soils, dry
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Driscoll soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Taney soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear

Lovell soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Santa soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

6021—Garfield-Naff complex, 8 to 35 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,300 to 2,700 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Garfield and similar soils: 40 percent
Naff and similar soils: 35 percent
Dissimilar minor components: 25 percent

Characteristics of Garfield

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): North to northwest (clockwise)

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 8 to 35 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap1—0 to 5 inches; silt loam
Ap2—5 to 8 inches; silt loam
Btb1—8 to 19 inches; silty clay loam

Btb2—19 to 32 inches; silty clay
Btb3—32 to 45 inches; silty clay loam
Btb4—45 to 60 inches; silty clay loam

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 35 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Thatuna soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Staley soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

6031—Staley-Naff complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,640 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Staley and similar soils: 60 percent
Naff and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Staley

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 7 inches; silt loam
A—7 to 12 inches; silt loam

Bw—12 to 23 inches; silt loam
Bk1—23 to 37 inches; silt loam
Bk2—37 to 60 inches; silt loam

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southwest
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Dissimilar Minor Components

Lance soils
Percentage of map unit: 7 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Broadax soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Garfield soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

6040—Larkin silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus (fig. 18)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,750 feet
Mean annual precipitation: 19 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Larkin and similar soils: 70 percent
Dissimilar minor components: 30 percent

Figure 18.—Typical area of Larkin silt loam, 0 to 8 percent slopes, under small grain stubble. In uncultivated areas, the Larkin soil supports a ponderosa pine/common snowberry habitat type.

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 4 inches; silt loam
A—4 to 9 inches; silt loam
AB—9 to 14 inches; silt loam
Bt1—14 to 19 inches; silt loam
Bt2—19 to 34 inches; silty clay loam
Bt3—34 to 64 inches; silty clay loam

Dissimilar Minor Components

Freeman soils
Percentage of map unit: 13 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Driscoll soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

Glenrose soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Southwick soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Concave

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

6041—Larkin-Southwick complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,950 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Larkin and similar soils: 65 percent
Southwick and similar soils: 15 percent
Dissimilar minor components: 20 percent

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 4 inches; silt loam
A—4 to 9 inches; silt loam
AB—9 to 14 inches; silt loam
Bt1—14 to 19 inches; silt loam
Bt2—19 to 34 inches; silty clay loam
Bt3—34 to 64 inches; silty clay loam

Characteristics of Southwick

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to southeast (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part over older loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 32 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap1—0 to 6 inches; ashy silt loam
Ap2—6 to 14 inches; ashy silt loam
Bw—14 to 22 inches; silt loam
EB—22 to 27 inches; silt loam
Ec—27 to 32 inches; silt loam
Btcxb1—32 to 36 inches; silty clay loam
Btcb2—36 to 48 inches; silty clay loam
Btb3—48 to 60 inches; silt loam

Dissimilar Minor Components

Freeman soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Caldwell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Driscoll soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Endoaquolls
Percentage of map unit: 2 percent
Landform: Drainageways
Downslope shape: Concave
Across-slope shape: Concave

Glenrose soils
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

6042—Larkin-Southwick complex, 15 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,900 feet
Mean annual precipitation: 19 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Larkin and similar soils: 60 percent
Southwick and similar soils: 20 percent
Dissimilar minor components: 20 percent

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 4 inches; silt loam
A—4 to 9 inches; silt loam
AB—9 to 14 inches; silt loam
Bt1—14 to 19 inches; silt loam
Bt2—19 to 34 inches; silty clay loam
Bt3—34 to 64 inches; silty clay loam

Characteristics of Southwick

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to southeast (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part over older loess
Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): About 24 to 32 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap1—0 to 6 inches; ashy silt loam
Ap2—6 to 14 inches; ashy silt loam
Bw—14 to 22 inches; silt loam
EB—22 to 27 inches; silt loam
Ec—27 to 32 inches; silt loam
Btcxb1—32 to 36 inches; silty clay loam
Btcb2—36 to 48 inches; silty clay loam
Btb3—48 to 60 inches; silt loam

Dissimilar Minor Components

Driscoll soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

Freeman soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Gibbs soils
Percentage of map unit: 4 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

Glenrose soils
Percentage of map unit: 4 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

6043—Larkin-Driscoll complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,520 to 2,770 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Larkin and similar soils: 50 percent
Driscoll and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 4 inches; silt loam
A—4 to 9 inches; silt loam
AB—9 to 14 inches; silt loam
Bt1—14 to 19 inches; silt loam
Bt2—19 to 34 inches; silty clay loam
Bt3—34 to 64 inches; silty clay loam

Characteristics of Driscoll

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Younger loess over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: 25 to 35 inches to an abrupt textural change
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 28 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 3 inches; silt loam
Ap2—3 to 10 inches; silt loam
Bt—10 to 26 inches; silt loam
E—26 to 27 inches; silt loam
Btb1—27 to 37 inches; silty clay loam
Btb2—37 to 45 inches; silty clay loam
Btb/Eb—45 to 50 inches; silty clay loam
Btb3—50 to 60 inches; silty clay loam

Dissimilar Minor Components

Southwick soils
Percentage of map unit: 7 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Concave

Caldwell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Freeman soils
Percentage of map unit: 3 percent
Landform: Loess hills

Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Glenrose soils
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

6045—Southwick-Larkin complex, 15 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,450 to 2,900 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Southwick and similar soils: 70 percent
Larkin and similar soils: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Southwick

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part over older loess
Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 32 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap1—0 to 6 inches; ashy silt loam
Ap2—6 to 14 inches; ashy silt loam
Bw—14 to 22 inches; silt loam
EB—22 to 27 inches; silt loam
Ec—27 to 32 inches; silt loam
Btcxb1—32 to 36 inches; silty clay loam
Btcb2—36 to 48 inches; silty clay loam
Btb3—48 to 60 inches; silt loam

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 4 inches; silt loam
A—4 to 9 inches; silt loam
AB—9 to 14 inches; silt loam
Bt1—14 to 19 inches; silt loam
Bt2—19 to 34 inches; silty clay loam
Bt3—34 to 64 inches; silty clay loam

Dissimilar Minor Components

Driscoll soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves

Downslope shape: Convex
Across-slope shape: Convex

Freeman soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Glenrose soils
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Caldwell soils
Percentage of map unit: 1 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

6050—Tilma-Latah complex, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,320 to 2,700 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Tilma and similar soils: 50 percent
Latah and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of Tilma

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches

Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 18 to 25 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 14 inches; silt loam
Bw—14 to 20 inches; silt loam
E—20 to 23 inches; silt loam
Btb1—23 to 30 inches; silty clay
Btb2—30 to 34 inches; silty clay
Btb3—34 to 42 inches; silty clay
Btb4—42 to 60 inches; silt loam

Characteristics of Latah

Setting
Landform: Low stream terraces, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from loess
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Low
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 18 to 22 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
Ap—0 to 10 inches; silt loam
A—10 to 14 inches; silt loam
BA—14 to 19 inches; silt loam
E—19 to 22 inches; silt loam
Btgb1—22 to 31 inches; silty clay loam

Btgb2—31 to 38 inches; silty clay loam
Btb—38 to 60 inches; silty clay loam

Dissimilar Minor Components

Caldwell soils
Percentage of map unit: 10 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Thatuna soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Concave

Naff soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Convex
Across-slope shape: Convex

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

6061—Naff silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,280 to 2,800 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 120 to 150 days

Map Unit Composition

Naff and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear

Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Dissimilar Minor Components

Staley soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Thatuna soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Concave

Broadax soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Garfield soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes

Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Glenrose soils
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

6062—Naff-Thatuna complex, 8 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,880 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Naff and similar soils: 55 percent
Thatuna and similar soils: 25 percent
Dissimilar minor components: 20 percent

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Characteristics of Thatuna

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 36 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: COOL LOAMY 16-24 PZ (R009XY103WA)

Typical profile
A1—0 to 6 inches; silt loam
A2—6 to 12 inches; silt loam
AB—12 to 19 inches; silt loam
Bw—19 to 28 inches; silt loam
E—28 to 35 inches; silt loam
Btb/E—35 to 43 inches; silty clay loam
Btb1—43 to 52 inches; silty clay loam
Btb2—52 to 60 inches; silty clay loam

Dissimilar Minor Components

Garfield soils
Percentage of map unit: 10 percent
Landform: Loess hills

Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Athena soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Staley soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

6064—Naff silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,880 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 120 to 150 days

Map Unit Composition

Naff and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear

Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Garfield soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Staley soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Thatuna soils
Percentage of map unit: 5 percent
Landform: Loess hills

Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Caldwell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

6067—Naff-Garfield complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,880 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Naff and similar soils: 60 percent
Garfield and similar soils: 20 percent
Dissimilar minor components: 20 percent

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Characteristics of Garfield

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap1—0 to 5 inches; silt loam
Ap2—5 to 8 inches; silt loam
Btb1—8 to 19 inches; silty clay loam
Btb2—19 to 32 inches; silty clay
Btb3—32 to 45 inches; silty clay loam
Btb4—45 to 60 inches; silty clay loam

Dissimilar Minor Components

Thatuna soils
Percentage of map unit: 7 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Athena soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Caldwell soils
Percentage of map unit: 4 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Staley soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

6068—Naff-Garfield complex, 15 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,880 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Naff and similar soils: 50 percent
Garfield and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Characteristics of Garfield

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap1—0 to 5 inches; silt loam
Ap2—5 to 8 inches; silt loam
Btb1—8 to 19 inches; silty clay loam
Btb2—19 to 32 inches; silty clay

Btb3—32 to 45 inches; silty clay loam
Btb4—45 to 60 inches; silty clay loam

Dissimilar Minor Components

Thatuna soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Athena soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Caldwell soils
Percentage of map unit: 4 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Staley soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

6072—Hanning silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,690 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Hanning and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Hanning

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes

Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to southeast (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: COOL LOAMY 16-24 PZ (R009XY103WA)

Typical profile
Ap—0 to 9 inches; silt loam
A—9 to 17 inches; silt loam
AB—17 to 24 inches; silt loam
Bt1—24 to 35 inches; silt loam
Bt2—35 to 45 inches; silt loam
Bt3—45 to 63 inches; silt loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Reardan soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

6073—Hanning silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,690 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Hanning and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Hanning

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to southeast (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: COOL LOAMY 16-24 PZ (R009XY103WA)

Typical profile
Ap—0 to 9 inches; silt loam
A—9 to 17 inches; silt loam
AB—17 to 24 inches; silt loam
Bt1—24 to 35 inches; silt loam
Bt2—35 to 45 inches; silt loam
Bt3—45 to 63 inches; silt loam

Dissimilar Minor Components

Lance soils
Percentage of map unit: 10 percent
Landform: Loess hills

Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Athena soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Mondovi soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Downslope shape: Linear
Across-slope shape: Linear

Reardan soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

6074—Hanning silt loam, 30 to 60 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,480 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Hanning and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Hanning

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to southeast (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 30 to 60 percent

Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Ecological site: COOL LOAMY 16-24 PZ (R009XY103WA)

Typical profile
Ap—0 to 9 inches; silt loam
A—9 to 17 inches; silt loam
AB—17 to 24 inches; silt loam
Bt1—24 to 35 inches; silt loam
Bt2—35 to 45 inches; silt loam
Bt3—45 to 63 inches; silt loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Reardan soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex

6080—Nez Perce ashy silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,340 to 2,700 feet
Mean annual precipitation: 18 to 22 inches

Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Nez Perce and similar soils: 85 percent
Dissimilar minor components: 15 percent

Characteristics of Nez Perce

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 10 to 18 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6w
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap1—0 to 6 inches; ashy silt loam
Ap2—6 to 10 inches; ashy silt loam
E—10 to 19 inches; silt loam
Btb—19 to 30 inches; silty clay
Btkb1—30 to 42 inches; silty clay
Btkb2—42 to 60 inches; silty clay

Dissimilar Minor Components

Brincken soils, moist
Percentage of map unit: 10 percent
Landform: Outwash terraces of loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils
Percentage of map unit: 3 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Uhlig soils
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

6093—Reardan silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,800 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Reardan and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Reardan

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
A—0 to 10 inches; silt loam
Bw—10 to 15 inches; silt loam
E—15 to 18 inches; silt loam
Btb—18 to 31 inches; silty clay
Btkb—31 to 37 inches; silty clay loam
Bkqb—37 to 60 inches; silt loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Broadax soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Hanning soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

6094—Reardan silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,690 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Reardan and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Reardan

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
A—0 to 10 inches; silt loam
Bw—10 to 15 inches; silt loam
E—15 to 18 inches; silt loam
Btb—18 to 31 inches; silty clay
Btkb—31 to 37 inches; silty clay loam
Bkqb—37 to 60 inches; silt loam

Dissimilar Minor Components

Hanning soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Broadax soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 5 percent
Landform: Loess hills

Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Caldwell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Athena soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

6096—Broadax-Reardan silt loams, 3 to 25 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,780 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Broadax and similar soils: 45 percent
Reardan and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Broadax

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 3 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 7 inches; silt loam
A—7 to 15 inches; silt loam
Bt—15 to 28 inches; silt loam
Btk—28 to 33 inches; silt loam
Bk—33 to 60 inches; silt loam

Characteristics of Reardan

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 3 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
A—0 to 10 inches; silt loam
Bw—10 to 15 inches; silt loam
E—15 to 18 inches; silt loam
Btb—18 to 31 inches; silty clay
Btkb—31 to 37 inches; silty clay loam
Bkqb—37 to 60 inches; silt loam

Dissimilar Minor Components

Lance soils
Percentage of map unit: 6 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Athena soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Caldwell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hanning soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

6110—Broadax silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,750 feet
Mean annual precipitation: 15 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Broadax and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Broadax

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 7 inches; silt loam
A—7 to 15 inches; silt loam
Bt—15 to 28 inches; silt loam
Btk—28 to 33 inches; silt loam
Bk—33 to 60 inches; silt loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 6 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Reardan soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hanning soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

6111—Broadax silt loam, 8 to 15 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,780 feet
Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Broadax and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Broadax

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 7 inches; silt loam
A—7 to 15 inches; silt loam
Bt—15 to 28 inches; silt loam
Btk—28 to 33 inches; silt loam
Bk—33 to 60 inches; silt loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 6 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes

Downslope shape: Linear
Across-slope shape: Linear

Reardan soils
Percentage of map unit: 6 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Caldwell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Naff soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Hanning soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Concave

6112—Broadax silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Channeled scablands
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,780 feet
Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Broadax and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Broadax

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 7 inches; silt loam
A—7 to 15 inches; silt loam
Bt—15 to 28 inches; silt loam
Btk—28 to 33 inches; silt loam
Bk—33 to 60 inches; silt loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Lance soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Reardan soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Naff soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

6130—Thatuna-Naff complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,300 to 2,780 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Thatuna and similar soils: 55 percent
Naff and similar soils: 30 percent
Dissimilar minor components: 15 percent

Characteristics of Thatuna

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 36 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: COOL LOAMY 16-24 PZ (R009XY103WA)

Typical profile
A1—0 to 6 inches; silt loam
A2—6 to 12 inches; silt loam
AB—12 to 19 inches; silt loam
Bw—19 to 28 inches; silt loam
E—28 to 35 inches; silt loam
Btb/E—35 to 43 inches; silty clay loam
Btb1—43 to 52 inches; silty clay loam
Btb2—52 to 60 inches; silty clay loam

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam
Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Base slopes
Downslope shape: Linear
Across-slope shape: Linear

Garfield soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Caldwell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

6131—Thatuna-Naff complex, 15 to 30 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,200 to 2,880 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 150 days

Map Unit Composition

Thatuna and similar soils: 50 percent
Naff and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of Thatuna

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): North
Aspect (range): Northwest to east (clockwise)

Properties and qualities
Parent material: Recent loess over older loess
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches

Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 36 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: COOL LOAMY 16-24 PZ (R009XY103WA)

Typical profile
A1—0 to 6 inches; silt loam
A2—6 to 12 inches; silt loam
AB—12 to 19 inches; silt loam
Bw—19 to 28 inches; silt loam
E—28 to 35 inches; silt loam
Btb/E—35 to 43 inches; silty clay loam
Btb1—43 to 52 inches; silty clay loam
Btb2—52 to 60 inches; silty clay loam

Characteristics of Naff

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 16 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 8 inches; silt loam
A—8 to 17 inches; silt loam
BA—17 to 26 inches; silt loam

Bt1—26 to 61 inches; silty clay loam
Bt2—61 to 80 inches; silty clay loam

Dissimilar Minor Components

Athena soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Garfield soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Caldwell soils
Percentage of map unit: 3 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

6140—Driscoll silt loam, 0 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus (fig. 19)
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,380 to 2,700 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Driscoll and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Driscoll

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Base slopes, interfluves

Figure 19.—Typical area of Driscoll silt loam, 0 to 8 percent slopes, under small grain stubble. In uncultivated areas, the Driscoll soil supports a ponderosa pine/common snowberry habitat type.

Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Younger loess over older loess
Slope range: 0 to 8 percent
Depth to restrictive feature: 25 to 35 inches to an abrupt textural change
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 28 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 3 inches; silt loam
Ap2—3 to 10 inches; silt loam
Bt—10 to 26 inches; silt loam
E—26 to 27 inches; silt loam

Btb1—27 to 37 inches; silty clay loam
Btb2—37 to 45 inches; silty clay loam
Btb/Eb—45 to 50 inches; silty clay loam
Btb3—50 to 60 inches; silty clay loam

Dissimilar Minor Components

Larkin soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Southwick soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Bobbitt soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Nose slopes, side slopes, interfluves
Downslope shape: Linear
Across-slope shape: Convex

Gibbs soils
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Convex
Across-slope shape: Convex

6141—Driscoll-Larkin complex, 8 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,900 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Driscoll and similar soils: 45 percent
Larkin and similar soils: 30 percent
Dissimilar minor components: 25 percent

Characteristics of Driscoll

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes, interfluves
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Younger loess over older loess
Slope range: 8 to 15 percent
Depth to restrictive feature: 25 to 35 inches to an abrupt textural change
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 28 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 3 inches; silt loam
Ap2—3 to 10 inches; silt loam
Bt—10 to 26 inches; silt loam
E—26 to 27 inches; silt loam
Btb1—27 to 37 inches; silty clay loam
Btb2—37 to 45 inches; silty clay loam
Btb/Eb—45 to 50 inches; silty clay loam
Btb3—50 to 60 inches; silty clay loam

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 4 inches; silt loam
A—4 to 9 inches; silt loam
AB—9 to 14 inches; silt loam
Bt1—14 to 19 inches; silt loam
Bt2—19 to 34 inches; silty clay loam
Bt3—34 to 64 inches; silty clay loam

Dissimilar Minor Components

Southwick soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Concave

Cald soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

Glenrose soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Latah soils
Percentage of map unit: 5 percent
Landform: Drainageways
Downslope shape: Linear
Across-slope shape: Concave

6200—Morical ashy silt loam, 0 to 15 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,500 to 2,950 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Morical and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Morical

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Crests, nose slopes, interfluves
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite and quartzite
Slope range: 0 to 15 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 6 inches; ashy silt loam
AB—6 to 12 inches; ashy silt loam
2Bt1—12 to 18 inches; silt loam
2Bt2—18 to 27 inches; very paragravelly sandy clay loam
2Cr—27 to 37 inches; bedrock

Dissimilar Minor Components

Glenrose soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, backslopes
Geomorphic position (three-dimensional): Side slopes, interfluves

Downslope shape: Linear
Across-slope shape: Linear

Reardan soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Base slopes, interfluves
Downslope shape: Linear
Across-slope shape: Linear

Swakane soils
Percentage of map unit: 3 percent
Landform: Ridges, hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Athena soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, base slopes
Downslope shape: Linear
Across-slope shape: Linear

6201—Morical ashy silt loam, 15 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain foothills
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,400 to 2,900 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Morical and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Morical

Setting
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Crests, nose slopes, interfluves
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite and quartzite
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Ecological site: LOAMY 16-24 PZ (R009XY102WA)

Typical profile
Ap—0 to 6 inches; ashy silt loam
AB—6 to 12 inches; ashy silt loam
2Bt1—12 to 18 inches; silt loam
2Bt2—18 to 27 inches; very paragravelly sandy clay loam
2Cr—27 to 37 inches; bedrock

Dissimilar Minor Components

Athena soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes, base slopes
Downslope shape: Linear
Across-slope shape: Linear

Dearyton soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Glenrose soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Kramerhill soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

7090—Urban land-Lenz, disturbed complex, 3 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,940 to 2,600 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 70 percent
Lenz, disturbed, and similar soils: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 3 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Lenz, Disturbed

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 4 inches; very gravelly ashy sandy loam
A2—4 to 9 inches; very gravelly ashy sandy loam
Bw1—9 to 14 inches; very gravelly ashy sandy loam
Bw2—14 to 26 inches; very cobbly sandy loam
C—26 to 38 inches; extremely stony sandy loam
R—38 to 48 inches; bedrock

Dissimilar Minor Components

Spokane soils, disturbed
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Swakane soils, disturbed
Percentage of map unit: 3 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

7091—Urban land-Lenz, disturbed complex, 15 to 30 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,940 to 2,600 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 70 percent
Lenz, disturbed, and similar soils: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Characteristics of Lenz, Disturbed

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite

Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 4 inches; very gravelly ashy sandy loam
A2—4 to 9 inches; very gravelly ashy sandy loam
Bw1—9 to 14 inches; very gravelly ashy sandy loam
Bw2—14 to 26 inches; very cobbly sandy loam
C—26 to 38 inches; extremely stony sandy loam
R—38 to 48 inches; bedrock

Dissimilar Minor Components

Spokane soils, disturbed
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Swakane soils, disturbed
Percentage of map unit: 3 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

7101—Pits-Dumps complex

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Map unit composition: Pits—60 percent; dumps—40 percent
Land capability subclass (nonirrigated): 8

7102—Riverwash

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Map unit composition: Riverwash—100 percent
Slope range: 0 to 3 percent

Seasonal high water table (minimum depth): At the soil surface to a depth of 24 inches (see Water Features table)
Land capability subclass (nonirrigated): 8

7103—Xerolls silt loam, warm, mass wasted, 8 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus, northern Rocky Mountain foothills
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,660 to 2,400 feet
Mean annual precipitation: 18 to 25 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Xerolls, warm, mass wasted, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Xerolls, Warm, Mass Wasted

Setting
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Mass-wasted colluvium derived from mixed sources with an influence of loess and volcanic ash in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
A1—0 to 4 inches; silt loam
A2—4 to 9 inches; silt loam
Bt—9 to 16 inches; silty clay loam
2C1—16 to 24 inches; loamy sand
2C2—24 to 60 inches; loamy sand

Dissimilar Minor Components

Bobbitt soils
Percentage of map unit: 6 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Brincken soils, moist, mass wasted
Percentage of map unit: 6 percent
Landform: Outwash terraces, earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Interfluves, risers
Downslope shape: Linear
Across-slope shape: Linear

Dearyton soils
Percentage of map unit: 6 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Lakespring soils
Percentage of map unit: 5 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Speigle soils, mass wasted
Percentage of map unit: 4 percent
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 3 percent

7104—Xerolls silt loam, cool, mass wasted, 8 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus, northern Rocky Mountain foothills
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,660 to 2,400 feet
Mean annual precipitation: 18 to 25 inches

Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Xerolls, cool, mass wasted, and similar soils: 70 percent
Dissimilar minor components: 30 percent

Characteristics of Xerolls, Cool, Mass Wasted

Setting
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): North
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Mass-wasted colluvium derived from mixed sources with an influence of loess and volcanic ash in the upper part
Slope range: 8 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
A1—0 to 4 inches; silt loam
A2—4 to 9 inches; silt loam
Bt—9 to 16 inches; silty clay loam
2C1—16 to 24 inches; loamy sand
2C2—24 to 60 inches; loamy sand

Dissimilar Minor Components

Fan Lake soils
Percentage of map unit: 7 percent
Landform: Relict glacial lake terraces, outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Klickson soils, mass wasted
Percentage of map unit: 7 percent
Landform: Earthflows
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes

Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils
Percentage of map unit: 5 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Green Bluff soils
Percentage of map unit: 3 percent
Landform: Outwash plains of basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear, convex

Blinn soils, stony surface
Percentage of map unit: 2 percent
Landform: Basalt escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Elmira soils
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Convex
Across-slope shape: Convex

Kronquist soils
Percentage of map unit: 2 percent
Landform: Stream terraces, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

7105—Urban land, gravelly substratum, 0 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys

Map Unit Composition

Urban land, gravelly substratum: 95 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land, Gravelly Substratum

Slope range: 0 to 15 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Opportunity soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marble soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7106—Urban land, sandy substratum, 0 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys

Map Unit Composition

Urban land, gravelly substratum: 95 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land, Gravelly Substratum

Slope range: 0 to 15 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Marble soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marblespring soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7107—Urban land, basalt bedrock substratum, 0 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys

Map Unit Composition

Urban land, basalt bedrock substratum: 95 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land, Basalt Bedrock Substratum

Slope range: 0 to 15 percent
Land capability subclass (nonirrigated): 8

Dissimilar Minor Components

Northstar soils, disturbed
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

7110—Urban land-Opportunity, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,200 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Opportunity, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Opportunity, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Land capability subclass (irrigated): 2s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; very gravelly ashy loam
A1—7 to 13 inches; extremely gravelly ashy loam
A2—13 to 19 inches; extremely gravelly ashy loam
Bw1—19 to 33 inches; extremely gravelly loam
Bw2—33 to 43 inches; extremely gravelly loam
Bq—43 to 53 inches; extremely gravelly loamy coarse sand
BCk—53 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Bong soils, moist, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils, disturbed
Percentage of map unit: 1 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marblespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7111—Urban land-Opportunity, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,200 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Opportunity, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Opportunity, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; very gravelly ashy loam
A1—7 to 13 inches; extremely gravelly ashy loam
A2—13 to 19 inches; extremely gravelly ashy loam
Bw1—19 to 33 inches; extremely gravelly loam
Bw2—33 to 43 inches; extremely gravelly loam

Bq—43 to 53 inches; extremely gravelly loamy coarse sand
BCk—53 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Bong soils, moist, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils, disturbed
Percentage of map unit: 1 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marblespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7112—Urban land-Opportunity, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,800 to 2,200 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Opportunity, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Opportunity, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; very gravelly ashy loam
A1—7 to 13 inches; extremely gravelly ashy loam
A2—13 to 19 inches; extremely gravelly ashy loam
Bw1—19 to 33 inches; extremely gravelly loam
Bw2—33 to 43 inches; extremely gravelly loam
Bq—43 to 53 inches; extremely gravelly loamy coarse sand
BCk—53 to 60 inches; extremely gravelly coarse sand

Dissimilar Minor Components

Bong soils, moist, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Garrison soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils, disturbed
Percentage of map unit: 1 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marblespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7115—Urban land-Marblespring, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,640 to 2,050 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 70 percent
Marblespring, disturbed, and similar soils: 26 percent
Dissimilar minor components: 4 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Marblespring, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
A1—0 to 2 inches; fine gravelly loamy coarse sand
A2—2 to 7 inches; fine gravelly loamy coarse sand
E and Bt1—7 to 27 inches; very gravelly loamy coarse sand
E and Bt2—27 to 51 inches; very gravelly loamy coarse sand
C—51 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7116—Urban land-Marblespring, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,640 to 2,050 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Marblespring, disturbed, and similar soils: 36 percent
Dissimilar minor components: 4 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Marblespring, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
A1—0 to 2 inches; fine gravelly loamy coarse sand
A2—2 to 7 inches; fine gravelly loamy coarse sand
E and Bt1—7 to 27 inches; very gravelly loamy coarse sand
E and Bt2—27 to 51 inches; very gravelly loamy coarse sand
C—51 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7117—Urban land-Marblespring, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,640 to 2,050 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Marblespring, disturbed, and similar soils: 36 percent
Dissimilar minor components: 4 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Marblespring, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
A1—0 to 2 inches; fine gravelly loamy coarse sand
A2—2 to 7 inches; fine gravelly loamy coarse sand
E and Bt1—7 to 27 inches; very gravelly loamy coarse sand
E and Bt2—27 to 51 inches; very gravelly loamy coarse sand
C—51 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7120—Urban land-Marble, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,750 to 2,360 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Marble, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Marble, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Marblespring soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils, disturbed
Percentage of map unit: 2 percent
Landform: Depressions, drainageways

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

7121—Urban land-Marble, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,750 to 2,360 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Marble, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Marble, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Hardesty soils, disturbed
Percentage of map unit: 2 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Hagen soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Marblespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7122—Urban land-Marble, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,750 to 2,360 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Marble, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Marble, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear

Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Bong soils, moist, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils, disturbed
Percentage of map unit: 1 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Lakespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Marblespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 1 percent

7123—Urban land-Marble, disturbed complex, 15 to 30 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,750 to 2,360 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Marble, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Characteristics of Marble, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 4 inches; loamy sand
E—4 to 8 inches; loamy sand
E and Bt1—8 to 27 inches; sand
E and Bt2—27 to 53 inches; sand
C—53 to 60 inches; sand

Dissimilar Minor Components

Lakespring soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains, relict glacial lake terraces

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 1 percent

Rubble land
Percentage of map unit: 1 percent

Speigle soils, disturbed
Percentage of map unit: 1 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

7130—Urban land-Northstar, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,360 feet
Mean annual precipitation: 17 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Northstar, disturbed, and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Northstar, Disturbed

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam
2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Rock outcrop
Percentage of map unit: 8 percent

Rockly soils, disturbed
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

7131—Urban land-Northstar, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,360 feet
Mean annual precipitation: 17 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Northstar, disturbed, and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Northstar, Disturbed

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam
2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Rock outcrop
Percentage of map unit: 5 percent

Rockly soils, disturbed
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash plains, relict glacial lake terraces

Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex

Springdale soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7132—Urban land-Northstar, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,360 feet
Mean annual precipitation: 17 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Northstar, disturbed, and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Northstar, Disturbed

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam
2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Rock outcrop
Percentage of map unit: 5 percent

Rockly soils, disturbed
Percentage of map unit: 5 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Seaboldt soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7134—Urban land-Northstar, disturbed complex, 15 to 30 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,800 to 2,360 feet
Mean annual precipitation: 17 to 19 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Northstar, disturbed, and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Urban Land

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Characteristics of Northstar, Disturbed

Setting
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 6 inches; extremely cobbly ashy loam
A2—6 to 11 inches; extremely cobbly ashy loam
BA—11 to 17 inches; very gravelly ashy loam
2Bw—17 to 26 inches; extremely gravelly loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Rock outcrop
Percentage of map unit: 8 percent

Rockly soils, disturbed
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Speigle soils, disturbed
Percentage of map unit: 2 percent
Landform: Escarpments
Geomorphic position (two-dimensional): Backslopes

Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

7140—Urban land-Uhlig, disturbed complex, 0 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,350 to 2,400 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 70 percent
Uhlig, disturbed, and similar soils: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 0 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Uhlig, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 0 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/bluebunch wheatgrass (CN130)

Typical profile
Ap1—0 to 4 inches; ashy silt loam
Ap2—4 to 10 inches; ashy silt loam
A—10 to 18 inches; ashy loam
2Bt1—18 to 32 inches; loam
2Bt2—32 to 42 inches; loam
2C—42 to 60 inches; very fine sandy loam

Dissimilar Minor Components

Seaboldt soils, warm, disturbed
Percentage of map unit: 5 percent
Landform: Outwash plains of basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Brincken soils, moist, disturbed
Percentage of map unit: 3 percent
Landform: Outwash terraces of loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Nez Perce soils, disturbed
Percentage of map unit: 2 percent
Landform: Loess-covered basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

7150—Urban land-Seaboldt, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,300 to 2,380 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 45 percent
Seaboldt, disturbed, and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Seaboldt, Disturbed

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Brincken soils, moist, disturbed
Percentage of map unit: 5 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, disturbed
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear

Marble soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7151—Urban land-Seaboldt, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,930 to 2,380 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 65 percent
Seaboldt, disturbed, and similar soils: 25 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Seaboldt, Disturbed

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Brincken soils, moist, disturbed
Percentage of map unit: 5 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marble soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Phoebe soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Uhlig soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7152—Urban land-Seaboldt, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,930 to 2,380 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 70 percent
Seaboldt, disturbed, and similar soils: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Seaboldt, Disturbed

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Dissimilar Minor Components

Rock outcrop
Percentage of map unit: 5 percent

Lakespring soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Marblespring soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed, stony surface
Percentage of map unit: 1 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads

Downslope shape: Linear
Across-slope shape: Linear

7163—Urban land-Spens, disturbed complex, 15 to 30 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 1,740 to 2,240 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 120 to 140 days

Map Unit Composition

Urban land: 60 percent
Spens, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Characteristics of Spens, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 15 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): High
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
A—0 to 3 inches; very gravelly loamy coarse sand
C1—3 to 18 inches; very gravelly loamy coarse sand
C2—18 to 60 inches; very gravelly coarse sand

Dissimilar Minor Components

Marble soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Springdale soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7170—Urban land-Springdale, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,660 to 2,200 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 130 days

Map Unit Composition

Urban land: 65 percent
Springdale, disturbed, and similar soils: 30 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Springdale, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 3 inches; gravelly ashy coarse sandy loam
AB—3 to 7 inches; gravelly ashy coarse sandy loam
Bw—7 to 13 inches; gravelly ashy coarse sandy loam
C1—13 to 25 inches; very gravelly loamy coarse sand
C2—25 to 61 inches; very cobbly coarse sand

Dissimilar Minor Components

Marblespring soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7171—Urban land-Springdale, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,600 to 2,390 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 130 days

Map Unit Composition

Urban land: 60 percent
Springdale, disturbed, and similar soils: 30 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Springdale, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 3 inches; gravelly ashy coarse sandy loam
AB—3 to 7 inches; gravelly ashy coarse sandy loam
Bw—7 to 13 inches; gravelly ashy coarse sandy loam
C1—13 to 25 inches; very gravelly loamy coarse sand
C2—25 to 61 inches; very cobbly coarse sand

Dissimilar Minor Components

Marblespring soils, disturbed
Percentage of map unit: 5 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Brincken soils, moist, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Opportunity soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7172—Urban land-Springdale, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 1,700 to 2,250 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 130 days

Map Unit Composition

Urban land: 60 percent
Springdale, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Springdale, Disturbed

Setting
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.1 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A—0 to 3 inches; gravelly ashy coarse sandy loam
AB—3 to 7 inches; gravelly ashy coarse sandy loam
Bw—7 to 13 inches; gravelly ashy coarse sandy loam
C1—13 to 25 inches; very gravelly loamy coarse sand
C2—25 to 61 inches; very cobbly coarse sand

Dissimilar Minor Components

Marblespring soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Spens soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

7177—Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,270 to 2,400 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Urban land: 45 percent
Seaboldt, warm, disturbed, and similar soils: 25 percent
Brincken, moist, disturbed, and similar soils: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Seaboldt, Warm, Disturbed

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Characteristics of Brincken, Moist, Disturbed

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam

Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Dissimilar Minor Components

Nez Perce soils, disturbed
Percentage of map unit: 5 percent
Landform: Loess-covered basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Uhlig soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Stutler soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7178—Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,310 to 2,380 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Urban land: 45 percent
Seaboldt, warm, disturbed, and similar soils: 25 percent
Brincken, moist, disturbed, and similar soils: 20 percent
Dissimilar minor components: 10 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Seaboldt, Warm, Disturbed

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Characteristics of Brincken, Moist, Disturbed

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam
AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam

Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Dissimilar Minor Components

Nez Perce soils, disturbed
Percentage of map unit: 5 percent
Landform: Loess-covered basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Uhlig soils, disturbed
Percentage of map unit: 3 percent
Landform: Outwash terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Stutler soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7179—Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,310 to 2,380 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Urban land: 50 percent
Seaboldt, warm, disturbed, and similar soils: 25 percent
Brincken, moist, disturbed, and similar soils: 20 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Seaboldt, Warm, Disturbed

Setting
Landform: Outwash plains on basalt plateaus
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap1—0 to 7 inches; ashy loam
Ap2—7 to 10 inches; ashy loam
Bw1—10 to 16 inches; loam
2Bw2—16 to 23 inches; sandy loam
2C—23 to 28 inches; extremely gravelly sandy loam
3R—28 to 38 inches; bedrock

Characteristics of Brincken, Moist, Disturbed

Setting
Landform: Outwash terraces on loess hills
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/Idaho fescue (CN140)

Typical profile
Ap—0 to 7 inches; ashy silt loam
A—7 to 13 inches; ashy silt loam

AB—13 to 19 inches; ashy silt loam
Bw—19 to 29 inches; ashy silt loam
Bt1—29 to 41 inches; extremely gravelly loam
Bt2—41 to 57 inches; very gravelly sandy clay loam
2Btb—57 to 60 inches; silty clay loam

Dissimilar Minor Components

Rockly soils, disturbed
Percentage of map unit: 3 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 2 percent

7180—Urban land-Phoebe, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies (fig. 20)
Elevation: 2,000 to 2,440 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 65 percent
Phoebe, disturbed, and similar soils: 30 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Phoebe, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Figure 20.—Typical area of Urban land-Phoebe, disturbed complex, 0 to 3 percent slopes.

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Bong soils, moist, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils, disturbed
Percentage of map unit: 2 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7181—Urban land-Phoebe, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,440 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 65 percent
Phoebe, disturbed, and similar soils: 30 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Phoebe, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Bong soils, moist, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Hardesty soils, disturbed
Percentage of map unit: 2 percent
Landform: Depressions, drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Linear, concave

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

7182—Urban land-Phoebe, disturbed complex, 8 to 15 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,440 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 65 percent
Phoebe, disturbed, and similar soils: 30 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 8 to 15 percent
Land capability subclass (nonirrigated): 8

Characteristics of Phoebe, Disturbed

Setting
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 8 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 8 inches; ashy sandy loam
A—8 to 16 inches; ashy sandy loam
Bw1—16 to 25 inches; fine sandy loam
Bw2—25 to 34 inches; sandy loam
C1—34 to 44 inches; loamy sand
C2—44 to 60 inches; sand

Dissimilar Minor Components

Bong soils, moist, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Lakespring soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Convex

Marble soils, disturbed
Percentage of map unit: 1 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

7190—Urban land-Lakespring, disturbed complex, 0 to 3 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 2,050 to 2,170 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Lakespring, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 0 to 3 percent
Land capability subclass (nonirrigated): 8

Characteristics of Lakespring, Disturbed

Setting
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciolacustrine deposits, Latah Formation, and/or landslide deposits
Slope range: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to densic material
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 34 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3s
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 7 inches; ashy loam
Bt1—7 to 21 inches; loam
Bt2—21 to 34 inches; gravelly loam
2Cd1—34 to 39 inches; silty clay loam
2Cd2—39 to 50 inches; silt loam
2Cd3—50 to 72 inches; silty clay loam

Dissimilar Minor Components

Marble soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Northstar soils, disturbed
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 1 percent

7191—Urban land-Lakespring, disturbed complex, 3 to 8 percent slopes

Map Unit Setting

Major land resource area (MLRA): 44A—Northern Rocky Mountain Valleys
Elevation: 2,050 to 2,380 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 60 percent
Lakespring, disturbed, and similar soils: 35 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 3 to 8 percent
Land capability subclass (nonirrigated): 8

Characteristics of Lakespring, Disturbed

Setting
Landform: Outwash plains, relict glacial lake terraces
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over glaciolacustrine deposits, Latah Formation, and/or landslide deposits
Slope range: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to densic material
Drainage class: Moderately well drained

Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 34 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 7 inches; ashy loam
Bt1—7 to 21 inches; loam
Bt2—21 to 34 inches; gravelly loam
2Cd1—34 to 39 inches; silty clay loam
2Cd2—39 to 50 inches; silt loam
2Cd3—50 to 72 inches; silty clay loam

Dissimilar Minor Components

Marble soils, disturbed
Percentage of map unit: 2 percent
Landform: Outwash plains
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Northstar soils, disturbed
Percentage of map unit: 2 percent
Landform: Basalt plateaus
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Base slopes, side slopes
Downslope shape: Linear
Across-slope shape: Linear

Rock outcrop
Percentage of map unit: 1 percent

7197—Urban land-Spokane, disturbed complex, 15 to 30 percent slopes

Map Unit Setting

Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,000 to 2,900 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Urban land: 70 percent
Spokane, disturbed, and similar soils: 25 percent
Dissimilar minor components: 5 percent

Characteristics of Urban Land

Slope range: 15 to 30 percent
Land capability subclass (nonirrigated): 8

Characteristics of Spokane, Disturbed

Setting
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): East
Aspect (range): Northwest to west (clockwise)

Properties and qualities
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, or schist
Slope range: 15 to 30 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
A1—0 to 4 inches; ashy loam
A2—4 to 10 inches; ashy sandy loam
Bt—10 to 18 inches; gravelly coarse sandy loam
BCt—18 to 26 inches; gravelly coarse sandy loam
Cr—26 to 36 inches; bedrock

Dissimilar Minor Components

Lenz soils, disturbed
Percentage of map unit: 2 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Nose slopes, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

Swakane soils, disturbed
Percentage of map unit: 1 percent
Landform: Hills
Geomorphic position (two-dimensional): Summits, shoulders

Geomorphic position (three-dimensional): Side slopes, nose slopes
Downslope shape: Convex
Across-slope shape: Convex

7200—Rock outcrop-Rubble land complex, cliffs, 0 to 90 percent slopes

Map Unit Setting

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies

Map Unit Composition

Rock outcrop, cliffs: 60 percent
Rubble land, cliffs: 40 percent

Characteristics of Rock Outcrop, Cliffs

Slope range: 0 to 90 percent
Land capability subclass (nonirrigated): 8

Characteristics of Rubble Land, Cliffs

Slope range: 0 to 60 percent
Land capability subclass (nonirrigated): 8
Description of areas: Fragmental material

8000—Pywell-Bellslake complex, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 44A—Northern Rocky Mountain valleys
Elevation: 1,820 to 2,190 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 80 to 120 days

Map Unit Composition

Pywell and similar soils: 60 percent
Bellslake and similar soils: 30 percent
Dissimilar minor components: 10 percent

Characteristics of Pywell

Setting
Landform: Drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Decomposed herbaceous and woody material mixed with a minor amount of mineral material
Slope range: 0 to 2 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Very poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high

Flooding frequency: None
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 6 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 26.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Land capability subclass (irrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Oa1—0 to 6 inches; muck
Oa2—6 to 14 inches; muck
Oa3—14 to 27 inches; muck
Oe—27 to 31 inches; mucky peat
Oa4—31 to 45 inches; muck
Oa5—45 to 60 inches; muck

Characteristics of Bellslake

Setting
Landform: Low stream terraces, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear, concave
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium mixed with volcanic ash and loess over decomposed herbaceous material
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Very poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 12 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 21.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Land capability subclass (irrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Ag1—0 to 6 inches; mucky ashy silt loam
Ag2—6 to 10 inches; stratified mucky ashy silt loam to very fine sandy loam
A—10 to 18 inches; stratified mucky ashy silt loam to very fine sandy loam
Bg—18 to 30 inches; mucky silt loam
Oa—30 to 48 inches; muck
Oe1—48 to 55 inches; mucky peat
Oe2—55 to 65 inches; mucky peat

Dissimilar Minor Components

Hoodoo soils
Percentage of map unit: 10 percent
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Concave

8001—Saltese muck, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,000 to 2,440 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Saltese and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Saltese

Setting
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Decomposed organic herbaceous material
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Very poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: Frequent (see Water Features table)
Seasonal high water table (minimum depth): At the soil surface to a depth of 6 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 26.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Oap—0 to 5 inches; muck
Oa—5 to 12 inches; muck
Oe—12 to 16 inches; mucky peat

Oa1—16 to 24 inches; muck
Oa2—24 to 40 inches; muck
Oa3—40 to 60 inches; muck

Dissimilar Minor Components

Cocolalla soils
Percentage of map unit: 10 percent
Landform: Drainageways, depressions
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Narcisse soils
Percentage of map unit: 5 percent
Landform: Drainageways
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Water
Percentage of map unit: 5 percent

8002—Saltese muck, drained, 0 to 3 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountain valleys
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,040 to 2,240 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Saltese, drained, and similar soils: 75 percent
Dissimilar minor components: 25 percent

Characteristics of Saltese, Drained

Setting
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Decomposed organic herbaceous material
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Very poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None

Seasonal high water table (minimum depth): About 24 to 40 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 26.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Ecological site: WET MEADOW 16-24 PZ (R044XY601WA)

Typical profile
Oap—0 to 5 inches; muck
Oa—5 to 12 inches; muck
Oe—12 to 16 inches; mucky peat
Oa1—16 to 24 inches; muck
Oa2—24 to 40 inches; muck
Oa3—40 to 60 inches; muck

Dissimilar Minor Components

Fluvaquentic Haplosaprists
Percentage of map unit: 10 percent
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Peone soils, drained
Percentage of map unit: 10 percent
Landform: Depressions, drainageways, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Concave
Across-slope shape: Linear, concave

Endoaquolls
Percentage of map unit: 5 percent
Landform: Drainageways, stream terraces, flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

9124—Caldwell-Cald complex, 0 to 3 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,300 to 2,650 feet
Mean annual precipitation: 18 to 23 inches
Mean annual air temperature: 47 to 49 degrees F
Frost-free period: 100 to 135 days

Map Unit Composition

Caldwell and similar soils: 60 percent
Cald and similar soils: 25 percent
Dissimilar minor components: 15 percent

Characteristics of Caldwell

Setting
Landform: Loess hills, drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from loess
Slope range: 0 to 3 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Occasional (see Water Features table)
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 21 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 12 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4w
Land capability subclass (irrigated): 4w
Ecological site: LOAMY BOTTOM 16-24 PZ (R009XY402WA)

Typical profile
Ap1—0 to 4 inches; silt loam
Ap2—4 to 10 inches; silt loam
A1—10 to 16 inches; silt loam
A2—16 to 21 inches; silt loam
AB—21 to 30 inches; silt loam
Bw—30 to 40 inches; silt loam
Bt1—40 to 52 inches; silt loam
Bt2—52 to 60 inches; silt loam

Characteristics of Cald

Setting
Landform: Flood plains
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave
Aspect (range): All aspects

Properties and qualities
Parent material: Alluvium derived from loess
Slope range: 0 to 2 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Poorly drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: Frequent (see Water Features table)

Ponding frequency: None
Seasonal high water table (minimum depth): About 11 to 13 inches (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 11.5 inches)

Interpretive groups
Land capability subclass (nonirrigated): 5w
Land capability subclass (irrigated): 5w
Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)

Typical profile
Ap1—0 to 7 inches; silt loam
Ap2—7 to 13 inches; silt loam
Ab—13 to 17 inches; silt loam
Ab/Bgb—17 to 25 inches; stratified silt loam to very fine sandy loam
Bgb1—25 to 40 inches; silt loam
Bgb2—40 to 48 inches; silt loam
Btgb—48 to 60 inches; silty clay loam

Dissimilar Minor Components

Endoaquolls
Percentage of map unit: 10 percent
Landform: Drainageways, stream terraces, flood plains
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Linear

Thatuna soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Latah soils
Percentage of map unit: 2 percent
Landform: Low stream terraces, drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Convex, linear
Across-slope shape: Linear, concave

9300—Taney ashy silt loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,560 to 3,220 feet
Mean annual precipitation: 25 to 28 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 110 days

Map Unit Composition

Taney and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Taney

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Volcanic ash over loess
Slope range: 3 to 8 percent
Depth to restrictive feature: 23 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 22 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; ashy silt loam
BA—4 to 15 inches; ashy silt loam
Bw—15 to 22 inches; silt loam
Bt—22 to 29 inches; silt loam
EBc—29 to 31 inches; silt loam
Btxcb—31 to 53 inches; silty clay loam
Btxb—53 to 60 inches; silty clay loam

Dissimilar Minor Components

Carlinton soils, dry
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear

Latahco soils
Percentage of map unit: 5 percent
Landform: Drainageways, low terraces

Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Setters soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Southwick soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Linear

9301—Taney ashy silt loam, 8 to 20 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,570 to 3,280 feet
Mean annual precipitation: 25 to 28 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 110 days

Map Unit Composition

Taney and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Taney

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear
Aspect (representative): Southwest
Aspect (range): South to northwest (clockwise)

Properties and qualities
Parent material: Volcanic ash over loess
Slope range: 8 to 20 percent
Depth to restrictive feature: 23 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 22 inches, perched (see Water Features table)
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; ashy silt loam
BA—4 to 15 inches; ashy silt loam
Bw—15 to 22 inches; silt loam
Bt—22 to 29 inches; silt loam
EBc—29 to 31 inches; silt loam
Btxcb—31 to 53 inches; silty clay loam
Btxb—53 to 60 inches; silty clay loam

Dissimilar Minor Components

Carlinton soils, dry
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear

Benewah soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Setters soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Latahco soils
Percentage of map unit: 2 percent
Landform: Drainageways, low terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

9330—Carlinton-Carlinton, dry, complex, 3 to 20 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies

Elevation: 2,580 to 3,230 feet
Mean annual precipitation: 25 to 28 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Carlinton and similar soils: 50 percent
Carlinton, dry, and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of Carlinton

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): Northwest
Aspect (range): West to east (clockwise)

Properties and qualities
Parent material: Volcanic ash over loess
Slope range: 3 to 20 percent
Depth to restrictive feature: 26 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 14 to 20 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Ap1—0 to 5 inches; ashy silt loam
Ap2—5 to 10 inches; ashy silt loam
Bw—10 to 14 inches; silt loam
EBt—14 to 20 inches; silt loam
E—20 to 23 inches; silt loam
BtbxE—23 to 30 inches; silt loam
Btbx—30 to 53 inches; silty clay loam
Btb—53 to 60 inches; silty clay loam

Characteristics of Carlinton, Dry

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex

Across-slope shape: Linear
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash over loess
Slope range: 3 to 20 percent
Depth to restrictive feature: 26 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 14 to 20 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap1—0 to 5 inches; ashy silt loam
Ap2—5 to 10 inches; ashy silt loam
Bw—10 to 14 inches; silt loam
EBt—14 to 20 inches; silt loam
E—20 to 23 inches; silt loam
BtbxE—23 to 30 inches; silt loam
Btbx—30 to 53 inches; silty clay loam
Btb—53 to 60 inches; silty clay loam

Dissimilar Minor Components

Lovell soils
Percentage of map unit: 8 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Downslope shape: Concave
Across-slope shape: Linear

Taney soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear

Benewah soils
Percentage of map unit: 4 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

9335—Carlinton ashy silt loam, dry, 8 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,700 to 3,230 feet
Mean annual precipitation: 25 to 28 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Carlinton, dry, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Carlinton, Dry

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash over loess
Slope range: 8 to 25 percent
Depth to restrictive feature: 26 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 14 to 20 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap1—0 to 5 inches; ashy silt loam
Ap2—5 to 10 inches; ashy silt loam
Bw—10 to 14 inches; silt loam
EBt—14 to 20 inches; silt loam
E—20 to 23 inches; silt loam
BtbxE—23 to 30 inches; silt loam
Btbx—30 to 53 inches; silty clay loam
Btb—53 to 60 inches; silty clay loam

Dissimilar Minor Components

Carlinton soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear

Taney soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear

Benewah soils
Percentage of map unit: 3 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

Lovell soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Downslope shape: Concave
Across-slope shape: Linear

Santa soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

9336—Carlinton, dry-Taney complex, 3 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,560 to 3,020 feet
Mean annual precipitation: 25 to 28 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Carlinton, dry, and similar soils: 55 percent
Taney and similar soils: 25 percent
Dissimilar minor components: 20 percent

Characteristics of Carlinton, Dry

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Volcanic ash over loess
Slope range: 3 to 8 percent
Depth to restrictive feature: 26 to 40 inches to a fragipan
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 14 to 20 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Ap1—0 to 5 inches; ashy silt loam
Ap2—5 to 10 inches; ashy silt loam
Bw—10 to 14 inches; silt loam
EBt—14 to 20 inches; silt loam
E—20 to 23 inches; silt loam
BtbxE—23 to 30 inches; silt loam
Btbx—30 to 53 inches; silty clay loam
Btb—53 to 60 inches; silty clay loam

Characteristics of Taney

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Volcanic ash over loess
Slope range: 3 to 8 percent
Depth to restrictive feature: 23 to 40 inches to a fragipan

Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 16 to 22 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Land capability subclass (irrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; ashy silt loam
BA—4 to 15 inches; ashy silt loam
Bw—15 to 22 inches; silt loam
Bt—22 to 29 inches; silt loam
EBc—29 to 31 inches; silt loam
Btxcb—31 to 53 inches; silty clay loam
Btxb—53 to 60 inches; silty clay loam

Dissimilar Minor Components

Carlinton soils
Percentage of map unit: 10 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear

Benewah soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Santa soils
Percentage of map unit: 3 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Convex

Latahco soils
Percentage of map unit: 2 percent
Landform: Drainageways, low terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

9340—Arson-Lotuspoint complex, 10 to 40 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,250 to 3,600 feet
Mean annual precipitation: 30 to 33 inches
Mean annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Map Unit Composition

Arson and similar soils: 45 percent
Lotuspoint and similar soils: 35 percent
Dissimilar minor components: 20 percent

Characteristics of Arson

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from siltite and fine-grained quartzite
Slope range: 10 to 40 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
BA—5 to 9 inches; ashy silt loam
EBt—9 to 15 inches; silt loam
Bt1—15 to 38 inches; silt loam
2Bt2—38 to 43 inches; very gravelly silt loam
2BCt—43 to 57 inches; very gravelly silt loam
2Crt—57 to 67 inches; bedrock

Characteristics of Lotuspoint

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash over colluvium and residuum derived from siltite and fine-grained quartzite
Slope range: 10 to 40 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; gravelly ashy silt loam
AB—4 to 10 inches; stony ashy silt loam
2Bw1—10 to 16 inches; extremely stony silt loam
2Bw2—16 to 26 inches; extremely stony loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Ardenvoir soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Ardenvoir soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Bechtel soils
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Sinkler soils
Percentage of map unit: 2 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

9341—Sinkler-Arson complex, 10 to 40 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,620 to 3,300 feet
Mean annual precipitation: 25 to 33 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Sinkler and similar soils: 45 percent
Arson and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Sinkler

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Loess over older loess with an influence of volcanic ash in the upper part
Slope range: 10 to 40 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches

Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 0.5 inch; slightly decomposed plant material
Oe—0.5 to 1 inch; moderately decomposed plant material
A—1 to 6 inches; ashy silt loam
Bw—6 to 12 inches; ashy silt loam
EBt—12 to 20 inches; silt loam
BtE—20 to 28 inches; silt loam
Bt—28 to 38 inches; silt loam
Btb—38 to 51 inches; silt loam
Btxb—51 to 60 inches; silty clay loam

Characteristics of Arson

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from siltite and fine-grained quartzite
Slope range: 10 to 40 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
BA—5 to 9 inches; ashy silt loam
EBt—9 to 15 inches; silt loam

Bt1—15 to 38 inches; silt loam
2Bt2—38 to 43 inches; very gravelly silt loam
2BCt—43 to 57 inches; very gravelly silt loam
2Crt—57 to 67 inches; bedrock

Dissimilar Minor Components

Benewah soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Concave

Sharptop soils
Percentage of map unit: 5 percent
Landform: Hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex

Bechtel soils
Percentage of map unit: 3 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks
Downslope shape: Linear
Across-slope shape: Convex, concave

Grangemont soils, warm
Percentage of map unit: 2 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Shoulders
Geomorphic position (three-dimensional): Interfluves
Downslope shape: Linear
Across-slope shape: Concave

9342—Sinkler, dry-Arson, dry complex, 10 to 40 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,750 to 3,350 feet
Mean annual precipitation: 27 to 33 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Sinkler, dry, and similar soils: 45 percent
Arson, dry, and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Sinkler, Dry

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Loess over older loess with an influence of volcanic ash in the upper part
Slope range: 10 to 30 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 8 inches; ashy silt loam
Bt—8 to 14 inches; silt loam
BtE—14 to 20 inches; silt loam
Btb1—20 to 33 inches; silty clay loam
Btb2—33 to 44 inches; silty clay loam
Btxbc—44 to 62 inches; silt loam

Characteristics of Arson, Dry

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from siltite and fine-grained quartzite
Slope range: 10 to 40 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high

Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 8.4 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 5 inches; ashy silt loam
BA—5 to 9 inches; ashy silt loam
EBt—9 to 15 inches; silt loam
Bt1—15 to 38 inches; silt loam
2Bt2—38 to 43 inches; very gravelly silt loam
2BCt—43 to 57 inches; very gravelly silt loam
2Crt—57 to 67 inches; bedrock

Dissimilar Minor Components

Ardenvoir soils, dry
Percentage of map unit: 8 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

McCrosket soils
Percentage of map unit: 3 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Lotuspoint soils
Percentage of map unit: 2 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Sinkler soils
Percentage of map unit: 2 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Footslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

9350—Southwick ashy silt loam, 3 to 8 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,530 to 3,020 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Southwick and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Southwick

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, footslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part over older loess
Slope range: 3 to 8 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 32 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 6 inches; ashy silt loam
A—6 to 13 inches; silt loam
Bw—13 to 28 inches; silt loam
E—28 to 31 inches; silt loam
Btcxb—31 to 49 inches; silty clay loam
Btcb1—49 to 54 inches; silty clay loam
Btcb2—54 to 70 inches; silt loam

Dissimilar Minor Components

Larkin soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Latahco soils
Percentage of map unit: 6 percent
Landform: Drainageways, low terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Driscoll soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, summits
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Taney soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

9355—Southwick-Driscoll complex, 3 to 15 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,560 to 3,030 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Southwick and similar soils: 55 percent
Driscoll and similar soils: 30 percent
Dissimilar minor components: 15 percent

Characteristics of Southwick

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Concave
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash in the upper part over older loess
Slope range: 3 to 15 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 32 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 6 inches; ashy silt loam
A—6 to 13 inches; silt loam
Bw—13 to 28 inches; silt loam
E—28 to 31 inches; silt loam
Btcxb—31 to 49 inches; silty clay loam
Btcb1—49 to 54 inches; silty clay loam
Btcb2—54 to 70 inches; silt loam

Characteristics of Driscoll

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Younger loess over older loess
Slope range: 3 to 15 percent
Depth to restrictive feature: 25 to 35 inches to an abrupt textural change
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 28 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 5 inches; silt loam
Ap2—5 to 10 inches; silt loam
AB—10 to 17 inches; silt loam
EBtc—17 to 24 inches; silt loam
Ec—24 to 26 inches; silt loam
Btb1—26 to 42 inches; silty clay
Btb2—42 to 49 inches; silty clay
Btb3—49 to 60 inches; silty clay loam

Dissimilar Minor Components

Larkin soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Latahco soils
Percentage of map unit: 3 percent
Landform: Drainageways, low terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Garfield soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

9356—Southwick-Driscoll complex, 15 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,650 to 3,100 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Southwick and similar soils: 55 percent
Driscoll and similar soils: 30 percent
Dissimilar minor components: 15 percent

Characteristics of Southwick

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear
Aspect (representative): Northwest
Aspect (range): Southwest to east (clockwise)

Properties and qualities
Parent material: Loess with an influence of volcanic ash over older loess
Slope range: 15 to 25 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 32 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 6 inches; ashy silt loam
A—6 to 13 inches; silt loam
Bw—13 to 28 inches; silt loam
E—28 to 31 inches; silt loam
Btcxb—31 to 49 inches; silty clay loam

Btcb1—49 to 54 inches; silty clay loam
Btcb2—54 to 70 inches; silt loam

Characteristics of Driscoll

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): South to northwest (clockwise)

Properties and qualities
Parent material: Younger loess over older loess
Slope range: 15 to 25 percent
Depth to restrictive feature: 25 to 35 inches to an abrupt textural change
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 28 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 5 inches; silt loam
Ap2—5 to 10 inches; silt loam
AB—10 to 17 inches; silt loam
EBtc—17 to 24 inches; silt loam
Ec—24 to 26 inches; silt loam
Btb1—26 to 42 inches; silty clay
Btb2—42 to 49 inches; silty clay
Btb3—49 to 60 inches; silty clay loam

Dissimilar Minor Components

Larkin soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear

Garfield soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes

Downslope shape: Convex
Across-slope shape: Convex

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

9363—Larkin-Driscoll complex, 3 to 12 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,530 to 2,920 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Larkin and similar soils: 55 percent
Driscoll and similar soils: 30 percent
Dissimilar minor components: 15 percent

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 3 to 12 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 6 inches; silt loam
AB—6 to 14 inches; silt loam
Bt1—14 to 22 inches; silt loam
Bt2—22 to 39 inches; silt loam
Btc—39 to 60 inches; silty clay loam

Characteristics of Driscoll

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, summits
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex
Aspect (range): All aspects

Properties and qualities
Parent material: Younger loess over older loess
Slope range: 3 to 12 percent
Depth to restrictive feature: 25 to 35 inches to an abrupt textural change
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 28 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 5 inches; silt loam
Ap2—5 to 10 inches; silt loam
AB—10 to 17 inches; silt loam
EBtc—17 to 24 inches; silt loam
Ec—24 to 26 inches; silt loam
Btb1—26 to 42 inches; silty clay
Btb2—42 to 49 inches; silty clay
Btb3—49 to 60 inches; silty clay loam

Dissimilar Minor Components

Southwick soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Concave
Across-slope shape: Linear

Latahco soils
Percentage of map unit: 3 percent
Landform: Drainageways, low terraces

Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Garfield soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

9364—Larkin-Southwick complex, 3 to 12 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,500 to 2,890 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Larkin and similar soils: 50 percent
Southwick and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (range): All aspects

Properties and qualities
Parent material: Loess
Slope range: 3 to 12 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline

Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 2e
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 6 inches; silt loam
AB—6 to 14 inches; silt loam
Bt1—14 to 22 inches; silt loam
Bt2—22 to 39 inches; silt loam
Btc—39 to 60 inches; silty clay loam

Characteristics of Southwick

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, footslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): All aspects

Properties and qualities
Parent material: Loess with an influence of volcanic ash over older loess
Slope range: 3 to 12 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 24 to 32 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very high (about 12.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3w
Land capability subclass (irrigated): 3e
Forest Service habitat type: Ponderosa pine/ninebark (CN190)

Typical profile
Ap—0 to 6 inches; ashy silt loam
A—6 to 13 inches; silt loam
Bw—13 to 28 inches; silt loam
E—28 to 31 inches; silt loam
Btcxb—31 to 49 inches; silty clay loam
Btcb1—49 to 54 inches; silty clay loam
Btcb2—54 to 70 inches; silt loam

Dissimilar Minor Components

Driscoll soils
Percentage of map unit: 8 percent
Landform: Loess hills

Geomorphic position (two-dimensional): Shoulders, summits
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Latahco soils
Percentage of map unit: 3 percent
Landform: Drainageways, low terraces
Geomorphic position (three-dimensional): Risers
Downslope shape: Linear
Across-slope shape: Linear

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

Taney soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Concave

9367—Larkin-Driscoll complex, 12 to 25 percent slopes

Map Unit Setting

General landscape: Columbia basalt plateaus
Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Elevation: 2,560 to 3,000 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 130 days

Map Unit Composition

Larkin and similar soils: 55 percent
Driscoll and similar soils: 30 percent
Dissimilar minor components: 15 percent

Characteristics of Larkin

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex
Across-slope shape: Linear
Aspect (representative): Southwest
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Loess
Slope range: 12 to 25 percent

Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 10.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap—0 to 6 inches; silt loam
AB—6 to 14 inches; silt loam
Bt1—14 to 22 inches; silt loam
Bt2—22 to 39 inches; silt loam
Btc—39 to 60 inches; silty clay loam

Characteristics of Driscoll

Setting
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Younger loess over older loess
Slope range: 12 to 25 percent
Depth to restrictive feature: 25 to 35 inches to an abrupt textural change
Drainage class: Moderately well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately low
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): About 21 to 28 inches, perched (see Water Features table)
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): High (about 9.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Ap1—0 to 5 inches; silt loam
Ap2—5 to 10 inches; silt loam
AB—10 to 17 inches; silt loam
EBtc—17 to 24 inches; silt loam
Ec—24 to 26 inches; silt loam

Btb1—26 to 42 inches; silty clay
Btb2—42 to 49 inches; silty clay
Btb3—49 to 60 inches; silty clay loam

Dissimilar Minor Components

Garfield soils
Percentage of map unit: 8 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

Southwick soils
Percentage of map unit: 5 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Concave
Across-slope shape: Linear

Cald soils
Percentage of map unit: 2 percent
Landform: Drainageways
Geomorphic position (two-dimensional): Toeslopes
Geomorphic position (three-dimensional): Treads
Downslope shape: Linear
Across-slope shape: Concave

9610—Schumacher silt loam, 5 to 25 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,550 to 3,300 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 120 to 135 days

Map Unit Composition

Schumacher and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Schumacher

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, footslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Linear
Across-slope shape: Convex, concave
Aspect (representative): West
Aspect (range): South to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with colluvium and residuum derived from metasedimentary rock
Slope range: 5 to 25 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 3e
Ecological site: LOAMY 16-22 FEID-PSSPS (R009XY003ID)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 8 inches; silt loam
BA—8 to 20 inches; silt loam
Bt1—20 to 27 inches; silt loam
Bt2—27 to 34 inches; gravelly silt loam
Bt3—34 to 41 inches; very cobbly clay loam
Bt4—41 to 47 inches; gravelly clay loam
R—47 to 57 inches; bedrock

Dissimilar Minor Components

Tekoa soils
Percentage of map unit: 8 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Libertybutte soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

McCrosket soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Larkin soils
Percentage of map unit: 2 percent
Landform: Loess hills
Geomorphic position (two-dimensional): Shoulders, summits

Geomorphic position (three-dimensional): Interfluves, side slopes
Downslope shape: Convex
Across-slope shape: Convex

9611—Schumacher-Tekoa complex, 25 to 40 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,600 to 3,500 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 49 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Schumacher and similar soils: 45 percent
Tekoa and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Schumacher

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex, linear
Across-slope shape: Convex, concave
Aspect (representative): West
Aspect (range): South to northwest (clockwise)

Properties and qualities
Parent material: Loess mixed with colluvium and residuum derived from metasedimentary rock
Slope range: 25 to 40 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 7.8 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: LOAMY 16-22 FEID-PSSPS (R009XY003ID)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A—1 to 8 inches; silt loam
BA—8 to 20 inches; silt loam
Bt1—20 to 27 inches; silt loam
Bt2—27 to 34 inches; gravelly silt loam
Bt3—34 to 41 inches; very cobbly clay loam

Bt4—41 to 47 inches; gravelly clay loam
R—47 to 57 inches; bedrock

Characteristics of Tekoa

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes, shoulders
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): West
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum over metasedimentary rock
Slope range: 25 to 40 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: SOUTH SLOPE LOAMY 16-22 PSSPS-FEID (R009XY004ID)

Typical profile
A1—0 to 7 inches; gravelly ashy silt loam
A2—7 to 13 inches; very cobbly silt loam
BA—13 to 17 inches; very cobbly silt loam
Bt1—17 to 27 inches; very cobbly silty clay loam
Bt2—27 to 33 inches; very gravelly silty clay loam
R—33 to 43 inches; bedrock

Dissimilar Minor Components

Libertybutte soils
Percentage of map unit: 5 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

McCrosket soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Cassyhill soils
Percentage of map unit: 3 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Arson soils, dry
Percentage of map unit: 2 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex

9612—Libertybutte-Tekoa complex, 5 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,850 to 3,700 feet
Mean annual precipitation: 20 to 25 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Libertybutte and similar soils: 45 percent
Tekoa and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Libertybutte

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Loess over colluvium and residuum derived from argillite, siltite, and fine-grained quartzite
Slope range: 5 to 30 percent
Depth to restrictive feature: 12 to 19 inches to paralithic bedrock, 12 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None

Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 2.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: SHALLOW SOUTH SLOPE STONY 16-22 PSSPS-POSE (R009XY026ID)

Typical profile
A—0 to 4 inches; gravelly silt loam
Bt1—4 to 11 inches; gravelly silt loam
Bt2—11 to 16 inches; very gravelly silt loam
Crt—16 to 19 inches; bedrock
R—19 to 29 inches; bedrock

Characteristics of Tekoa

Setting
Landform: Hills, mountains
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): West
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from metasedimentary rock
Slope range: 10 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: SOUTH SLOPE LOAMY 16-22 PSSPS-FEID (R009XY004ID)

Typical profile
A1—0 to 7 inches; gravelly ashy silt loam
A2—7 to 13 inches; very cobbly silt loam
BA—13 to 17 inches; very cobbly silt loam
Bt1—17 to 27 inches; very cobbly silty clay loam
Bt2—27 to 33 inches; very gravelly silty clay loam
R—33 to 43 inches; bedrock

Dissimilar Minor Components

Schumacher soils
Percentage of map unit: 10 percent
Landform: Mountains, hills

Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex, linear
Across-slope shape: Convex, concave

McCrosket soils
Percentage of map unit: 3 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Cassyhill soils
Percentage of map unit: 2 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

9613—Ardenvoir, dry-Lotuspoint complex, 5 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,250 to 3,850 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 140 days

Map Unit Composition

Ardenvoir, dry, and similar soils: 50 percent
Lotuspoint and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Ardenvoir, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 5 to 30 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 3 inches; gravelly ashy silt loam
AB—3 to 11 inches; gravelly ashy silt loam
Bw—11 to 18 inches; very gravelly loam
C1—18 to 32 inches; extremely gravelly loam
C2—32 to 41 inches; extremely cobbly loam
C3—41 to 60 inches; extremely stony loam
Cr—60 to 70 inches; bedrock

Characteristics of Lotuspoint

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): South to west (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 5 to 30 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; gravelly ashy silt loam
AB—4 to 10 inches; stony ashy silt loam
2Bw1—10 to 16 inches; extremely stony silt loam
2Bw2—16 to 26 inches; extremely stony loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Arson soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex

Cassyhill soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

McCrosket soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

9614—Ardenvoir, dry-Lotuspoint complex, 30 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,250 to 3,940 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 140 days

Map Unit Composition

Ardenvoir, dry, and similar soils: 50 percent
Lotuspoint and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Ardenvoir, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite

Slope range: 30 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 3 inches; gravelly ashy silt loam
AB—3 to 11 inches; gravelly ashy silt loam
Bw—11 to 18 inches; very gravelly loam
C1—18 to 32 inches; extremely gravelly loam
C2—32 to 41 inches; extremely cobbly loam
C3—41 to 60 inches; extremely stony loam
Cr—60 to 70 inches; bedrock

Characteristics of Lotuspoint

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): South to west (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 30 to 65 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material

A—2 to 4 inches; gravelly ashy silt loam
AB—4 to 10 inches; stony ashy silt loam
2Bw1—10 to 16 inches; extremely stony silt loam
2Bw2—16 to 26 inches; extremely stony loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Cassyhill soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

McCrosket soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Pinecreek soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

9617—Tekoa gravelly ashy silt loam, 15 to 40 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 3,050 to 3,450 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 47 to 49 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Tekoa and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Tekoa

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from metasedimentary rock
Slope range: 15 to 40 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Ecological site: SOUTH SLOPE LOAMY 16-22 PSSPS-FEID (R009XY004ID)

Typical profile
A1—0 to 7 inches; gravelly ashy silt loam
A2—7 to 13 inches; very cobbly silt loam
BA—13 to 17 inches; very cobbly silt loam
Bt1—17 to 27 inches; very cobbly silty clay loam
Bt2—27 to 33 inches; very gravelly silty clay loam
R—33 to 43 inches; bedrock

Dissimilar Minor Components

Schumacher soils
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Side slopes
Downslope shape: Convex, linear
Across-slope shape: Convex, concave

Libertybutte soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Summits, shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Cassyhill soils
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Arson soils, dry
Percentage of map unit: 2 percent
Landform: Mountains

Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

9701—Ardenvoir-McCrosket association, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,900 to 4,000 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Ardenvoir and similar soils: 55 percent
McCrosket and similar soils: 25 percent
Dissimilar minor components: 20 percent

Characteristics of Ardenvoir

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to northwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; gravelly ashy silt loam
Bw1—6 to 11 inches; gravelly ashy silt loam

Bw2—11 to 19 inches; gravelly loam
C1—19 to 39 inches; very cobbly loam
C2—39 to 48 inches; extremely cobbly loam
Cr—48 to 58 inches; bedrock

Characteristics of McCrosket

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from metasedimentary rock
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 12 inches; gravelly ashy silt loam
Bw—12 to 32 inches; very cobbly silt loam
BC—32 to 42 inches; extremely cobbly loam
Cr—42 to 52 inches; bedrock

Dissimilar Minor Components

Lotuspoint soils
Percentage of map unit: 7 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Ardenvoir soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks

Downslope shape: Convex
Across-slope shape: Convex

Huckle soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Cassyhill soils
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

9703—Ardenvoir, dry-Ardenvoir complex, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,750 to 3,550 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Ardenvoir, dry, and similar soils: 45 percent
Ardenvoir and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Ardenvoir, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None

Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 3 inches; gravelly ashy silt loam
AB—3 to 11 inches; gravelly ashy silt loam
Bw—11 to 18 inches; very gravelly loam
C1—18 to 32 inches; extremely gravelly loam
C2—32 to 41 inches; extremely cobbly loam
C3—41 to 60 inches; extremely stony loam
Cr—60 to 70 inches; bedrock

Characteristics of Ardenvoir

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; gravelly ashy silt loam
Bw1—6 to 11 inches; gravelly ashy silt loam
Bw2—11 to 19 inches; gravelly loam

C1—19 to 39 inches; very cobbly loam
C2—39 to 48 inches; extremely cobbly loam
Cr—48 to 60 inches; bedrock

Dissimilar Minor Components

Lotuspoint soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

McCrosket soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Huckle soils, dry
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Cassyhill soils
Percentage of map unit: 2 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

9704—Ardenvoir, dry-Ardenvoir complex, 15 to 35 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,780 to 3,990 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Ardenvoir, dry, and similar soils: 45 percent
Ardenvoir and similar soils: 40 percent
Dissimilar minor components: 15 percent

Characteristics of Ardenvoir, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 15 to 35 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 3 inches; gravelly ashy silt loam
AB—3 to 11 inches; gravelly ashy silt loam
Bw—11 to 18 inches; very gravelly loam
C1—18 to 32 inches; extremely gravelly loam
C2—32 to 41 inches; extremely cobbly loam
C3—41 to 60 inches; extremely stony loam
Cr—60 to 70 inches; bedrock

Characteristics of Ardenvoir

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 15 to 35 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; gravelly ashy silt loam
Bw1—6 to 11 inches; gravelly ashy silt loam
Bw2—11 to 19 inches; gravelly loam
C1—19 to 39 inches; very cobbly loam
C2—39 to 48 inches; extremely cobbly loam
Cr—48 to 60 inches; bedrock

Dissimilar Minor Components

Lotuspoint soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

McCrosket soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Arson soils, dry
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Convex

Cassyhill soils
Percentage of map unit: 2 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

9706—Ardenvoir gravelly ashy silt loam, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,900 to 4,200 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Ardenvoir and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Ardenvoir

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southeast
Aspect (range): East to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; gravelly ashy silt loam
Bw1—6 to 11 inches; gravelly ashy silt loam
Bw2—11 to 19 inches; gravelly loam
C1—19 to 39 inches; very cobbly loam
C2—39 to 48 inches; extremely cobbly loam
Cr—48 to 58 inches; bedrock

Dissimilar Minor Components

Ardenvoir soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Huckle soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Concave
Across-slope shape: Linear

McCrosket soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Saint Maries soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Center third of mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

9707—Huckle, dry-Ardenvoir complex, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,810 to 4,300 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

Huckle, dry, and similar soils: 50 percent
Ardenvoir and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Huckle, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, shoulders
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Concave
Across-slope shape: Linear
Aspect (representative): North
Aspect (range): Northwest to northeast (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/queencup beadlily (CN520)

Typical profile
Oi—0 to 2 inches; slightly decomposed plant material
Oe—2 to 3 inches; moderately decomposed plant material
A—3 to 4 inches; ashy silt loam
Bw1—4 to 8 inches; ashy silt loam
Bw2—8 to 19 inches; gravelly ashy silt loam
2Bw3—19 to 28 inches; very cobbly silt loam
2BC—28 to 38 inches; extremely cobbly silt loam
2C—38 to 47 inches; extremely cobbly loam
2Cr—47 to 57 inches; bedrock

Characteristics of Ardenvoir

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; gravelly ashy silt loam
Bw1—6 to 11 inches; gravelly ashy silt loam
Bw2—11 to 19 inches; gravelly loam
C1—19 to 39 inches; very cobbly loam
C2—39 to 48 inches; extremely cobbly loam
Cr—48 to 58 inches; bedrock

Dissimilar Minor Components

Ahrs soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Saint Maries soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Center third of mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Rasser soils
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Linear

Honeyjones soils, warm
Percentage of map unit: 2 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

9710—McCrosket-Ardenvoir association, 15 to 35 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,730 to 3,610 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

McCrosket and similar soils: 50 percent
Ardenvoir and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of McCrosket

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 15 to 35 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 12 inches; gravelly ashy silt loam
Bw—12 to 32 inches; very cobbly silt loam
BC—32 to 42 inches; extremely cobbly loam
Cr—42 to 52 inches; bedrock

Characteristics of Ardenvoir

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes

Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex, linear
Across-slope shape: Linear, concave
Aspect (representative): Southeast
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 15 to 35 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 6e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; gravelly ashy silt loam
Bw1—6 to 11 inches; gravelly ashy silt loam
Bw2—11 to 19 inches; gravelly loam
C1—19 to 39 inches; very cobbly loam
C2—39 to 48 inches; extremely cobbly loam
Cr—48 to 58 inches; bedrock

Dissimilar Minor Components

Ardenvoir soils, dry
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex, linear
Across-slope shape: Linear, concave

Lotuspoint soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Arson soils
Percentage of map unit: 3 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks

Downslope shape: Linear
Across-slope shape: Convex

Tekoa soils
Percentage of map unit: 2 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

9711—McCrosket-Ardenvoir association, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,730 to 3,740 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Map Unit Composition

McCrosket and similar soils: 50 percent
Ardenvoir and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of McCrosket

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 12 inches; gravelly ashy silt loam
Bw—12 to 32 inches; very cobbly silt loam
BC—32 to 42 inches; extremely cobbly loam
Cr—42 to 52 inches; bedrock

Characteristics of Ardenvoir

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Convex, linear
Across-slope shape: Linear, concave
Aspect (representative): Southeast
Aspect (range): East to southwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.6 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 6 inches; gravelly ashy silt loam
Bw1—6 to 11 inches; gravelly ashy silt loam
Bw2—11 to 19 inches; gravelly loam
C1—19 to 39 inches; very cobbly loam
C2—39 to 48 inches; extremely cobbly loam
Cr—48 to 58 inches; bedrock

Dissimilar Minor Components

Lotuspoint soils
Percentage of map unit: 8 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Arson soils
Percentage of map unit: 7 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Huckle soils, dry
Percentage of map unit: 3 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Tekoa soils
Percentage of map unit: 2 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

9712—McCrosket-Tekoa association, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains and foothills
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,600 to 3,610 feet
Mean annual precipitation: 20 to 35 inches
Mean annual air temperature: 45 to 49 degrees F
Frost-free period: 90 to 140 days

Map Unit Composition

McCrosket and similar soils: 50 percent
Tekoa and similar soils: 30 percent
Dissimilar minor components: 20 percent

Characteristics of McCrosket

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): Northwest
Aspect (range): West to southeast (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 12 inches; gravelly ashy silt loam
Bw—12 to 32 inches; very cobbly silt loam
BC—32 to 42 inches; extremely cobbly loam
Cr—42 to 52 inches; bedrock

Characteristics of Tekoa

Setting
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from metasedimentary rock
Slope range: 35 to 65 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Ecological site: SOUTH SLOPE LOAMY 16-22 PSSPS-FEID (R009XY004ID)

Typical profile
A1—0 to 7 inches; gravelly ashy silt loam
A2—7 to 13 inches; very cobbly silt loam
BA—13 to 17 inches; very cobbly silt loam
Bt1—17 to 27 inches; very cobbly silty clay loam
Bt2—27 to 33 inches; very gravelly silty clay loam
R—33 to 43 inches; bedrock

Dissimilar Minor Components

Ardenvoir soils
Percentage of map unit: 10 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear
Across-slope shape: Concave

Lotuspoint soils
Percentage of map unit: 5 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Cassyhill soils
Percentage of map unit: 3 percent
Landform: Mountains, hills
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Rasser soils
Percentage of map unit: 2 percent
Landform: Hills, mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks, side slopes
Downslope shape: Linear, concave
Across-slope shape: Linear

9735—Lotuspoint stony ashy silt loam, 35 to 65 percent slopes, stony surface

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,080 to 4,200 feet
Mean annual precipitation: 28 to 40 inches
Mean annual air temperature: 47 to 49 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Lotuspoint, stony surface, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Lotuspoint, Stony Surface

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex

Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Surface area covered with stones: 0.01 to 0.1 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 8
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; stony ashy silt loam
AB—4 to 10 inches; stony ashy silt loam
2Bw1—10 to 16 inches; extremely stony silt loam
2Bw2—16 to 26 inches; extremely stony loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Cassyhill soils
Percentage of map unit: 8 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Pinecreek soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Ardenvoir soils
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Rasser soils
Percentage of map unit: 2 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 2 percent

9770—Pinecreek gravelly ashy silt loam, 30 to 75 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,210 to 4,450 feet
Mean annual precipitation: 25 to 51 inches
Mean annual air temperature: 45 to 46 degrees F
Frost-free period: 95 to 125 days

Map Unit Composition

Pinecreek and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Pinecreek

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): South
Aspect (range): Northeast to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 30 to 75 percent
Depth to restrictive feature: None to a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A1—2 to 6 inches; gravelly ashy silt loam
A2—6 to 12 inches; gravelly ashy silt loam
Bw1—12 to 19 inches; gravelly ashy silt loam
Bw2—19 to 24 inches; gravelly ashy silt loam
2Bw3—24 to 30 inches; very gravelly loam
2C—30 to 70 inches; extremely cobbly loam

Dissimilar Minor Components

Ahrs soils
Percentage of map unit: 8 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Lotuspoint soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Rasser soils
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Cassyhill soils
Percentage of map unit: 2 percent
Landform: Mountains
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 2 percent

9775—Pinecreek gravelly ashy silt loam, moist, 20 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,670 to 4,220 feet
Mean annual precipitation: 23 to 45 inches

Mean annual air temperature: 44 to 46 degrees F
Frost-free period: 95 to 115 days

Map Unit Composition

Pinecreek, moist, and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Pinecreek, Moist

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 20 to 65 percent
Depth to restrictive feature: None within a depth of 60 inches
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Moderate (about 6.2 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Grand fir/ninebark (CN506)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A1—2 to 6 inches; gravelly ashy silt loam
A2—6 to 12 inches; gravelly ashy silt loam
Bw1—12 to 19 inches; gravelly ashy silt loam
Bw2—19 to 24 inches; gravelly ashy silt loam
2Bw3—24 to 30 inches; very gravelly loam
2C—30 to 70 inches; extremely cobbly loam

Dissimilar Minor Components

Ahrs soils
Percentage of map unit: 8 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Lotuspoint soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Rasser soils
Percentage of map unit: 3 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Lower third of mountain flanks, side slopes
Downslope shape: Concave, linear
Across-slope shape: Linear, concave

Honeyjones soils, warm
Percentage of map unit: 2 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 2 percent

9776—Cassyhill very gravelly ashy silt loam, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,190 to 3,800 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Cassyhill and similar soils: 80 percent
Dissimilar minor components: 20 percent

Characteristics of Cassyhill

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to southwest (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 7 inches; very gravelly ashy silt loam
A2—7 to 11 inches; very gravelly ashy loam
C—11 to 14 inches; extremely channery loam
R—14 to 24 inches; bedrock

Dissimilar Minor Components

Lotuspoint soils, stony surface
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Ardenvoir soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

9778—Cassyhill-Lotuspoint complex, 5 to 30 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,190 to 4,840 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Map Unit Composition

Cassyhill and similar soils: 50 percent
Lotuspoint and similar soils: 35 percent
Dissimilar minor components: 15 percent

Characteristics of Cassyhill

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes, shoulders
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): South to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 5 to 30 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7s
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 7 inches; very gravelly ashy silt loam
A2—7 to 11 inches; very gravelly ashy loam
C—11 to 14 inches; extremely channery loam
R—14 to 24 inches; bedrock

Characteristics of Lotuspoint

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): Southwest
Aspect (range): South to west (clockwise)

Properties and qualities
Parent material: Thin mantle of volcanic ash over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 5 to 30 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 3 inches)

Interpretive groups
Land capability subclass (nonirrigated): 4e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 4 inches; gravelly ashy silt loam
AB—4 to 10 inches; stony ashy silt loam
2Bw1—10 to 16 inches; extremely stony silt loam
2Bw2—16 to 26 inches; extremely stony loam
2R—26 to 36 inches; bedrock

Dissimilar Minor Components

Ardenvoir soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Shoulders, backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Concave
Across-slope shape: Linear

Pinecreek soils
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Rock outcrop
Percentage of map unit: 5 percent

9782—Ardenvoir, dry-Cassyhill complex, 35 to 65 percent slopes

Map Unit Setting

General landscape: Northern Rocky Mountains
Major land resource area (MLRA): 43A—Northern Rocky Mountains
Elevation: 2,190 to 3,600 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 140 days

Map Unit Composition

Ardenvoir, dry, and similar soils: 45 percent
Cassyhill and similar soils: 35 percent
Dissimilar minor components: 20 percent

Characteristics of Ardenvoir, Dry

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Low (about 5.9 inches)

Interpretive groups
Land capability subclass (nonirrigated): 7e
Forest Service habitat type: Douglas-fir/ninebark (CN260)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
Oe—1 to 2 inches; moderately decomposed plant material
A—2 to 3 inches; gravelly ashy silt loam
AB—3 to 11 inches; gravelly ashy silt loam
Bw—11 to 18 inches; very gravelly loam
C1—18 to 32 inches; extremely gravelly loam
C2—32 to 41 inches; extremely cobbly loam
C3—41 to 60 inches; extremely stony loam
Cr—60 to 70 inches; bedrock

Characteristics of Cassyhill

Setting
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Convex
Across-slope shape: Convex
Aspect (representative): South
Aspect (range): Southeast to west (clockwise)

Properties and qualities
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 35 to 65 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting soil layer to transmit water (Ksat): Moderately high
Flooding frequency: None
Ponding frequency: None
Seasonal high water table (minimum depth): More than 72 inches
Salinity (maximum): Not saline
Sodicity (maximum): Not sodic
Available water capacity (entire profile): Very low (about 1.7 inches)

Interpretive groups
Land capability subclass (nonirrigated): 8
Forest Service habitat type: Ponderosa pine/common snowberry (CN170)

Typical profile
Oi—0 to 1 inch; slightly decomposed plant material
A1—1 to 7 inches; very gravelly ashy silt loam
A2—7 to 11 inches; very gravelly ashy loam
C—11 to 14 inches; extremely channery loam
R—14 to 24 inches; bedrock

Dissimilar Minor Components

Lotuspoint soils, stony surface
Percentage of map unit: 10 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Upper third of mountain flanks
Downslope shape: Linear
Across-slope shape: Concave

Arson soils, dry
Percentage of map unit: 5 percent
Landform: Mountains
Geomorphic position (two-dimensional): Backslopes
Geomorphic position (three-dimensional): Mountain flanks
Downslope shape: Linear
Across-slope shape: Convex

Rock outcrop
Percentage of map unit: 5 percent

W—Water

Major land resource area (MLRA): 9—Palouse and Nez Perce Prairies
Map unit composition: Water—100 percent
Land capability subclass (nonirrigated): 8

Use and Management of the Soils

This soil survey is an inventory and evaluation of the soils in the survey area. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses.

In preparing a soil survey, soil scientists, conservationists, engineers, and others collect extensive field data about the nature and behavioral characteristics of the soils. They collect data on erosion, droughtiness, flooding, and other factors that affect various soil uses and management. Field experience and collected data on soil properties and performance are used as a basis in predicting soil behavior.

Information in this section can be used to plan the use and management of soils for crops and pasture; as rangeland and forestland; as sites for buildings, sanitary facilities, highways and other transportation systems, and parks and other recreational facilities; for agricultural waste management; and as wildlife habitat. It can be used to identify the potentials and limitations of each soil for specific land uses and to help prevent construction failures caused by unfavorable soil properties.

Land managers and others using soil survey information can evaluate the effect of specific land uses on productivity and on the environment in all or part of the survey area. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

Contractors can use this survey to locate sources of gravel, sand, reclamation material, roadfill, and topsoil. They can use it to identify areas where bedrock, wetness, or very firm soil layers can cause difficulty in excavation.

Health officials, highway officials, engineers, and others may also find this survey useful. The survey can help them plan the safe disposal of wastes and locate sites for pavements, sidewalks, campgrounds, playgrounds, lawns, and trees and shrubs.

Interpretive Ratings

The interpretive tables in this survey rate the soils in the survey area for various uses. Many of the tables identify the limitations that affect specified uses and indicate the severity of those limitations. The ratings in these tables are both verbal and numerical.

Rating Class Terms

Rating classes are expressed in the tables in terms that indicate the extent to which the soils are limited by all of the soil features that affect a specified use or in terms that indicate the suitability of the soils for the use. Thus, the tables may show limitation classes or suitability classes. Terms for the limitation classes are *not limited, somewhat limited,* and *very limited*. The suitability ratings are expressed as *well suited, moderately suited, poorly suited,* and *unsuited* or as *good, fair,* and *poor*.

Numerical Ratings

Numerical ratings in the tables indicate the relative severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate

gradations between the point at which a soil feature has the greatest negative impact on the use and the point at which the soil feature is not a limitation. The limitations appear in order from the most limiting to the least limiting. Thus, if more than one limitation is identified, the most severe limitation is listed first and the least severe one is listed last.

Soil Survey Information on the Internet

Additional information about the soils and the detailed soil maps for the survey area are available online from the Web Soil Survey site (http://websoilsurvey.nrcs.usda.gov/app/). The information on this site is the official soil survey data.

Crops and Pasture

By Joel Poore, conservation agronomist, Natural Resources Conservation Service.

General considerations for the use and management of the soils in the survey area as cropland and pastureland are included in this section. The section discusses common systems used for crop production; the influence of climate, landform, and soils on the crops grown; and the impact of crop production systems on the soils. It also identifies the common crops and forage plants, explains the system of land capability classification used by the Natural Resources Conservation Service, and discusses crop productivity and yield expectations. Planners of management systems for individual fields and farms should consider the detailed information given under the headings “Detailed Soil Map Units,” “Use and Management of the Soils,” and “Soil Properties.” Specific information can be obtained from the local office of the Natural Resources Conservation Service or the Cooperative Extension Service or from the Spokane County Conservation District office.

The soils and climate patterns in the survey area provide favorable growing conditions for most cool-season grasses and broadleaf crops. The productivity of an individual soil primarily depends on whether or not the depth of the soil allows for sufficient root growth and soil moisture storage to support growth during the hot, dry period in summer. Warm-season grasses and broadleaf crops, such as short-season corn, trees and vines, and specialty vegetables, can be grown with supplemental irrigation in summer.

The growing conditions in the survey area include a cool, wet period in spring. Soil temperatures increase slowly in spring, which affects biological activity in the soil and the growth rate of crops. Soils that are frozen and covered with snow early in spring may be subject to erosion from runoff during periods of rainfall or snowmelt.

The soils warm up quickly during May and June in most years, providing optimum conditions for rapid plant growth. July through September generally are very dry, with little chance of convective storms. The extensive root systems developed in spring and the stored soil moisture enable crops to complete their growth cycle in summer.

Maturing and harvesting of small grain occurs in mid-July to late in August in most years. Winter small grain is planted late in August to early in October. Cool-season pasture grasses commonly continue to grow slowly through November.

Cool-season annual crops, such as wheat, and perennial crops, such as alfalfa, resume or begin growth in spring when the soil temperature is cool and variable. Snow cover commonly persists on the soils through March. Root development early in spring is important for successful crop production and survival during the dry period in summer.

About 298,000 acres of the survey area is considered harvested cropland. Of this, about 3,000 to 5,000 acres is irrigated and the rest is nonirrigated. The dominant harvested crop is small grain, including winter wheat (98,638 acres) and spring wheat (42,108 acres). Barley, oats, and triticale are grown on about 30,000 acres each year.

Cool-season broadleaf crops, such as dry edible peas and lentils (7,000 acres), and oilseed crops, such as canola and mustard (1,500 acres), are grown in rotation with the small grain. The trend is toward increased production of oilseed crops as the demand for biofuel feedstock increases.

Alfalfa (36,400 acres), most of which is nonirrigated, is grown for hay, green chop, and silage. Records from 2007 indicate that only about 10 percent was irrigated. Other forage crops include small grain and mixed perennial grasses for hay (24,600 acres). Grass seed (24,200 acres) is grown in the eastern part of the survey area that receives more rainfall. Most of it is nonirrigated. Orchard crops, vineyard crops, nursery crops, and specialty vegetables are produced on about 2,000 acres. About 80 percent of these crops are irrigated and grown on farms that are 0 to 15 acres in size.

About 36 percent of the survey area, or 395,000 acres, is considered unharvested cropland. This includes land used for conservation, pastureland, forestland, and land under fallow. Cropping systems that include a fallow period are becoming less common in most of the survey area. Only 24,000 acres were recorded as fallowed in 2007, primarily in the western and southern parts of the survey area that receive less precipitation. Conservation practices, such as use of grassed waterways, riparian buffers, and buffer strips, help to minimize surface runoff and soil erosion and improve soil quality.

Crop productivity is influenced by the chemical properties, water features, and physical properties of the soils, climate, and landscape. These properties can be used to determine a productivity index to aid in establishing realistic yield goals. The productivity of a soil can be enhanced with the use of management practices such as applying fertilizer and soil amendments, managing pests, selecting the best varieties of crops, irrigating, and tilling.

Chemical soil properties in the root zone that impact productivity include soil pH, cation-exchange capacity (CEC), organic matter in the surface layer and subsoil, and electrical conductivity (EC) and sodium adsorption ratio (SAR) in the surface layer and subsoil, which can indicate salt concentrations that inhibit seed germination and availability of water. Physical soil properties that affect productivity include saturated hydraulic conductivity (Ksat), bulk density, content of rock fragments, and depth to a restrictive layer. Climatic properties include frost-free days and mean annual precipitation, both of which vary considerably across the survey area.

Available water capacity within the root zone is influenced by soil depth, structure, texture, and organic matter. The steepness and shape of slope affect water movement. Some of the well-developed silt loam soils in the survey area have a dense clay layer that restricts water movement through the profile.

Deep silt loam soils that are well developed and have slope of 0 to 30 percent or more are primarily in the eastern part of the survey area. Shallower silt loam soils underlain by basalt are in the western part of the survey area that receives less precipitation. Very shallow soils and soils that have a restrictive layer commonly are used as native rangeland.

Some soils have variable textures and a high content of coarse fragments. These soils are on flood plains, in areas at the lower elevations, and on outwash terraces. Some areas have a water table at a shallow depth or are subject to seasonal ponding that can affect crop growth. The water table can provide subirrigation for hay and pasture crops that can be beneficial if the surface is not saturated for long periods of time.

Winter wheat is the major nonirrigated crop. A grain-fallow system can be used in the drier western areas of the survey area (12- to 16-inch rainfall zone) to conserve soil moisture. This can improve germination and emergence of winter grain seeded in fall. Residue management and tillage can be used to control weeds and conserve moisture. Tillage systems used range from conventional tillage to no-till.

Early emergence of crops seeded in fall allows for root development prior to winter, which is essential for survival and yield potential the following year. Residue and tillage management systems help to minimize soil disturbance in areas that receive adequate moisture for growing crops annually without a fallow period. Crop residue kept on the surface in winter helps to retain moisture from snow and rain and minimize the risk of wind and water erosion. A straight chisel in fall can be used to improve water infiltration on steep slopes. Excessive tillage decreases water infiltration and increases the risk of runoff and erosion. Water erosion, which is a main concern on the soils in the survey area, can be minimized by the use of proper residue management and tillage, contour stripcropping, chisel plowing perpendicular to the slope, grassed waterways, and diversions at proper intervals on the slope.

Potential yields for small grain in the survey area can be estimated according to annual precipitation zones, including areas that receive more than 20 inches, 16 to 20 inches, and 12 to 16 inches. Most of the rainfall in the survey area is received in October through May. Washington State University Extension has conducted research on several varieties of small grain in the survey area.

The average yields per acre that can be expected under a high level of management are shown in the following table. In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. Constantly improving technology that includes variety development, nutrient and pest management techniques, irrigation water management, and residue and tillage management helps to increase the potential yields. Other yield data is available from local farmers, Spokane County Conservation District, Washington State University Extension, and local offices of the Natural Resources Conservation Service.

Summary of 5-Year Yields for Small Grain

(Washington State University [http://variety.wsu.edu/])

Small grain class	Precipitation (inches)	Maximum yield	Average yield
Soft white winter wheat (bu/acre)	>20	136	122
	16-20	105	95
	12-20	100	89
Hard red winter wheat (bu/acre)	>20	133	118
	16-20	101	86
	12-16	89	77
Hard spring wheat (bu/acre)	>20	74	71
	16-20	50	47
	12-16	50	47
Soft white spring wheat (bu/acre)	>20	84	80
	16-20	62	57
	12-16	58	50
Spring barley (lbs/acre)	>20	6,280	5,150
	16-20	4,020	3,410
	12-20	3,890	3,180

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include crop rotations; drainage, erosion control, and protection from flooding; proper planting and seeding techniques and rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil pH and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure, and green-manure crops; and harvesting that ensures the smallest possible loss.

Crop Productivity Indices

Crop productivity indices provide an estimate of the relative productivity of soil map unit components for the principal crops grown in the survey area. The indices are numerical values that range from 0.00 to 1.00. The greater the value, the higher the potential productivity for the crop.

Crop productivity indices rather than actual estimated yields are provided because of the difficulty of collecting accurate, reliable crop yield data. Also, development of new crop varieties and advancements in crop production technology can result in estimated yields becoming obsolete over time.

The criteria for the crop productivity indices were developed by soil scientists and agronomists familiar with the soils and crops in the survey area and the cropland management practices used. The National Commodity Crop Productivity Index (NCCPI) was modified for local soil and climatic conditions. More information on the NCCPI is available at www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_050734.pdf.

The criteria for the crop productivity indices can be grouped into five categories—physical soil properties, chemical soil properties, climate, landscape, and soil water. Physical soil properties include rock fragment content, depth to root-restricting layers, and clay content. Chemical soil properties include organic matter content, sodium adsorption ratio, electrical conductivity, pH, calcium carbonate content, and cation-exchange capacity. Climate properties include the number of frost-free days and mean annual precipitation. Landscape criteria include steepness of slope, stones and boulders on the soil surface, depth to and duration of the water table during the growing season, frequency and duration of flooding during the growing season, and frequency and duration of ponding during the growing season. The soil water criterion is based on the available water capacity.

Table 6 gives productivity indices for nonirrigated wheat. Table 7 gives productivity indices for nonirrigated alfalfa hay, nonirrigated grass hay, and subirrigated wild hay. The term “subirrigated” refers to a condition where water is supplied to the crop from a naturally occurring water table.

Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for rangeland, for forestland, or for engineering purposes.

In the capability system, soils are generally grouped at three levels—capability class, subclass, and unit (USDA, 1961). Only class and subclass are used in this survey.

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

Class 1 soils have slight limitations that restrict their use.

Class 2 soils have moderate limitations that restrict the choice of plants or that require moderate conservation practices.

Class 3 soils have severe limitations that restrict the choice of plants or that require special conservation practices, or both.

Class 4 soils have very severe limitations that restrict the choice of plants or that require very careful management, or both.

Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.

Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

Capability subclasses are soil groups within one class. They are designated by adding a small letter, *e, w, s,* or *c,* to the class numeral, for example, 2e. The letter *e* shows that the main hazard is the risk of erosion unless close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); *s* shows that the soil is limited mainly because it is shallow, droughty, or stony; and *c,* used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

In class 1 there are no subclasses because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by *w, s,* or *c* because the soils in class 5 are subject to little or no erosion. They have other limitations that restrict their use to pasture, rangeland, forestland, wildlife habitat, or recreation.

The capability classification of the soils in this survey area is given in the section “Detailed Soil Map Units” and in table 6.

Prime Farmland and Other Important Farmland

Table 8 lists the map units in the survey area that are considered prime farmland and farmland of statewide importance. This list does not constitute a recommendation for a particular land use.

In an effort to identify the extent and location of important farmland, the Natural Resources Conservation Service, in cooperation with other interested Federal, State, and local government organizations, has inventoried land that can be used for the production of the Nation’s food supply.

Prime farmland is of major importance in meeting the Nation’s short- and long-range needs for food and fiber. Because the supply of high-quality farmland is limited, the U.S. Department of Agriculture recognizes that responsible levels of government, as well as individuals, should encourage and facilitate the wise use of our Nation’s prime farmland.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed,

forage, fiber, and oilseed crops and is available for these uses. It could be cultivated land, pastureland, forestland, or other land, but it is not urban or built-up land or water areas. The soil quality, growing season, and moisture supply are those needed for the soil to economically produce sustained high yields of crops when proper management, including water management, and acceptable farming methods are applied. In general, prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. The water supply is dependable and of adequate quality. Prime farmland is permeable to water and air. It is not excessively erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. Slope ranges mainly from 0 to 6 percent. More detailed information about the criteria for prime farmland is available at the local office of the Natural Resources Conservation Service.

A recent trend in land use in some areas has been the loss of some prime farmland to industrial and urban uses. The loss of prime farmland to other uses puts pressure on marginal lands, which generally are more erodible, droughty, and less productive and cannot be easily cultivated.

For some soils identified in the table as prime farmland, measures that overcome a hazard or limitation, such as flooding, wetness, and droughtiness, are needed. Onsite evaluation is needed to determine whether or not the hazard or limitation has been overcome by corrective measures.

About 333,680 acres, or 30 percent, of the total acreage of the survey area meet the requirements for prime farmland.

In some areas, land that does not meet the criteria for prime or unique farmland is considered to be *farmland of statewide importance* for the production of food, feed, fiber, forage, and oilseed crops. The criteria for defining and delineating farmland of statewide importance are determined by the appropriate State agencies. Generally, this land includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods. Some areas may produce as high a yield as prime farmland if conditions are favorable. Farmland of statewide importance may include tracts of land that have been designated for agriculture by State law.

About 354,270 acres, or 31 percent, of the total acreage of the survey area meet the requirements for farmland of statewide importance.

Rangeland

By John Kouns, area rangeland management specialist, Natural Resources Conservation Service.

Rangeland consists of areas where the indigenous vegetation is dominantly grasses, grasslike plants, forbs, and shrubs and is managed as a natural ecosystem. Rangeland includes grassland, sagebrush steppe, desert, arid land, and prairie. Although rangeland is commonly associated with livestock production, it has many other uses including mining of mineral resources, solar and wind farms, wildlife viewing, hiking, commercial and private hunting and fishing, camping, and horseback and all-terrain vehicle riding. Managing for multiple uses has become more common and has provided additional sources of income for private landowners.

Rangeland comprises about 26 percent of the survey area, or about 296,000 acres. It can be distinguished from other land by the natural flora and fauna it supports. The majority of the historic rangeland in the United States, as well as in the survey area, is now under cultivation. Deposition and decay of foliage and roots of these primarily herbaceous plant communities produce some of the most productive soils in the world.

The northern part of the survey area is in the Rocky Mountain Range and Forest Region, as designated by a U.S. Department of Agriculture publication “Land Resource

Regions and Major Land Resource Areas of the United States." The Rocky Mountain valleys support both conifer forests and grassland plant communities. The upland grassland community historically produced 800 to 1,000 pounds per acre, dominantly bluebunch wheatgrass, Idaho fescue, rose, snowberry, lupine, arrowleaf balsamroot, and penstemon. The wet meadows, which produce 5,000 to 7,000 pounds per acre, dominantly support rushes, sedges, water-tolerant grasses, and woody shrubs such as redosier dogwood, serviceberry, and prickly currant.

The Palouse Prairie, in the southern part of the survey area, is in the Northwestern Wheat and Range Region and supports grasses, shrubs, and trees. Common grass and shrub species include bluebunch wheatgrass, Idaho fescue, Sandberg bluegrass, needleandthread, redosier dogwood, serviceberry, prickly currant, and sagebrush. Forb and tree species include arrowleaf balsamroot, sunflower species, meadow death-camas, silky lupine, western hawkweed, cottonwood, willow, and ponderosa pine. Deer, elk, moose, ground squirrels, gophers, voles, badgers, hawks, hummingbirds, and sharp-tailed grouse are in this region.

Table 9 shows, for each soil that supports vegetation suitable for grazing, the ecological site or plant association; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic vegetation; and the average percentage of each species. An explanation of the column headings in the table follows.

An *ecological site* or *plant association* is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site or plant association is typified by a group of species that differs from that of other ecological sites or plant associations in the kind and/or proportion of species or in total production. Descriptions of ecological sites and plant associations are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service.

Rangeland trend, similarity index, and health ratings are used to evaluate rangeland. These assessments provide managers with the information needed to plan and apply appropriate practices to address management concerns.

Rangeland trend indicates the direction of change on a range site. The plant community and associated components of the ecosystem, such as soil stability and water holding capacity, may be either moving toward or away from the historic climax plant community or some other desired plant community.

The similarity index compares the current plant community with that of the historic climax plant community. In general, the index is a measurement of the noxious and invasive species in the plant community as compared to the historic plant community. For example, a similarity index of 25 percent or less indicates a range site heavily impacted by invasive species and a similarity index of 50 percent or more indicates that the plant community is dominantly native species.

Rangeland health evaluates the stability of the soil and site, hydrologic function, and integrity of the biotic community. This evaluation requires a good understanding of ecological processes, vegetation, and soils. It is based on the current conditions as compared to historic conditions (Pellant and others, 2005).

Total dry-weight production is the amount of vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in

pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percent of air-dry moisture content.

Characteristic vegetation (the grasses, forbs, shrubs, and trees that make up most of the potential natural plant community on each soil) is listed by common name. Under *forest* or *range composition*, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The amount that can be used as forage depends on the kinds of grazing animals and on the grazing season.

Range management requires a knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in the “National Range and Pasture Handbook,” which is available in local offices of the Natural Resources Conservation Service or on the Internet.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

Forestland Management and Productivity

By Misty Seaboldt, forester, and Chandra Neils, soil scientist, Natural Resources Conservation Service.

About 30 percent, or about 308,650 acres, of the survey area is forested. Of this, 85 percent is privately owned and the rest is publicly owned. About 10 percent is administered by the State, 2 percent by the county, and 3 percent by the Federal government.

A number of small sawmills and a paper mill are in the survey area. Logs are generally shipped outside the area or state to larger mills. Pulpwood and chips are hauled to surrounding counties and states for processing (Washington State University, 2009).

Intensive forest management is common; however, large-scale management is difficult because much of the forestland has been divided into one- to five-acre parcels. Conservation and educational programs have led to a better understanding of forest ecosystems and management. Turnbull Wildlife Refuge, which is administered by the U.S. Fish and Wildlife Service, has an intensive forest management program in the southwestern part of the survey area. Little, if any, timber harvesting is permitted in Mount Spokane and Riverside State Parks. Most of the remaining forestland in the area has been harvested at least once.

The most common and potentially damaging pests in the coniferous forests are mistletoe and bark beetles. Dwarf mistletoe is a parasitic plant that affects ponderosa pine, Douglas-fir, lodgepole pine, western larch, and hemlock. Some of the ponderosa pine in the southern part of the area has been heavily damaged. Dwarf mistletoe

results in a loss in growth and wood quality and death in severe cases. The most common treatment for dwarf mistletoe is silviculture practices, including removing heavily damaged trees from the stand, removing branches in lightly infected trees, and converting species where possible.

The most common bark beetles are the Douglas-fir beetle (*Dendroctonus pseudotsugae*), mountain pine beetle (*Dendroctonus ponderosae*), pine engraver beetle (*Ips spp.*), and western pine beetle (*Dendroctonus brevicomis*). The Douglas-fir beetle affects Douglas-fir and western larch. This beetle is a natural part of the ecosystem, so eradication is impossible. Treatment includes removing downed or dead trees before the beetle levels become epidemic. The mountain pine beetle affects a variety of coniferous trees, including ponderosa pine, lodgepole pine, and western white pine. This beetle prefers large, older pine trees. Outbreaks generally begin in weakened trees, but healthy trees can be affected if the levels increase. Treatment for the mountain pine beetle generally is not feasible, so prevention is preferred. The pine engraver beetle affects ponderosa pine, lodgepole pine, and western white pine. This beetle is attracted to fresh, downed slash. In spring and summer, fresh slash should be scattered throughout the stand to help prevent large outbreaks. The western pine beetle most commonly attacks ponderosa pine. Maintaining a healthy forest stand, including maintaining proper spacing between trees and removing trees that have been killed by bark beetles, helps to prevent outbreaks of this beetle.

Historically, ponderosa pine forests were subject to fire on a regular basis. The bark of these trees could withstand low-intensity ground fires, which acted to naturally thin the forests. Trees that had less dense bark were killed, and therefore competition was reduced. High-intensity crown fires were more likely to be stand replacing. These fires commonly killed all standing trees. This created openings for sun-tolerant ponderosa pine to become established.

The location and productivity of forested soils in the survey area is determined by many factors. Effective precipitation, aspect, and elevation influence the soils and forest habitat types. The parent material of the soils is also a factor. Much of the forestland in the area is on soils derived from granite, gneiss, and schist with an influence of volcanic ash and loess in the surface layer. Volcanic ash has the most influence on productivity. The eruption of Mount St. Helens on May 18, 1980, and historically, the eruption of Mount Mazama (present-day Crater Lake, Oregon) deposited much ash in the area.

The influence of ash ranges from a small amount mixed into the upper part of the soil profile to several feet, forming a thick mantle. Forest productivity is affected by the properties of ash, such as high water holding capacity, high phosphorus retention, and low bulk density.

The principal habitat types in the survey area are ponderosa pine/snowberry (PIPO/SYAL) and ponderosa pine/Idaho fescue (PIPO/FEID). The ponderosa pine/snowberry habitat type is warm and dry. Some Douglas-fir is in the understory, but the main overstory component is ponderosa pine. The site index for this type ranges from 60 to 100. The dominant understory species are common yarrow, arrowleaf balsamroot, common snowberry, Idaho fescue, and bluebunch wheatgrass. Cheatgrass is in areas that have been grazed.

The ponderosa pine/Idaho fescue habitat type is also dry, but it tends to be cooler and drier than the ponderosa pine/snowberry type. The site index ranges from 64 to 100. Douglas-fir may be a minor component. The understory vegetation is highly variable, but bulbous bluegrass, Idaho fescue, and Saskatoon serviceberry are common.

For more information on forest habitat types, refer to the publication “Forest Habitat Types of Northern Idaho: A Second Approximation” (Cooper and others, 1991).

The forested soils in the survey area are shallow to very deep and sandy or gravelly to loamy. Because of the differences in the soils, climate, and geology, the forests vary in composition and productivity. They range from sparse stands of pine in the tree/grass transition zone to dense stands of mixed conifers on upland outwash terraces, foothills, and mountains.

In the southwestern corner of the area, the elevation is about 1,700 feet and the mean annual precipitation is about 15 inches. Many of the soils support pure stands of ponderosa pine. Past geologic processes formed biscuits, channeled scablands, and outwash plains. The site index values range from poor on the shallow scablands to fair or good on some of the deeper soils.

As elevation increases to the north and east, deep sand and sandy loam soils on terraces and benches along the Spokane and Little Spokane Rivers are common. These soils support low-producing stands of ponderosa pine.

North and east of the benches are soils that range from the sandy, gravelly, and droughty Springdale series, which support poor stands of ponderosa pine, to the very deep, ashy, very fine sandy loam Eloika series, which support excellent stands of Douglas-fir, western larch, and grand fir. Many soils derived from glacial outwash and stream deposits are also in this area. The soils support a mixture of ponderosa pine, Douglas-fir, western larch, and lodgepole pine. The mean annual precipitation is 18 to 22 inches. Many of the soils have high water-holding capacity that can provide moisture during the droughty period in summer. Productivity is affected by soil depth, restrictive layers, and texture. Many of the soils have clay bands in the subsoil that increase the water holding capacity and thus the productivity of the soils.

Many of the forests in the southwestern part of the survey area are suitable for grazing. Bunchgrass is the principal forage plant in areas where the range is in good condition. Because of the coarse and medium texture of the soils, the risk of compaction is minimal if the range is properly managed. Most of the forested areas are grazed to a limited extent. The amount of usable forage varies with the age and density of the forest canopy and past harvesting practices.

Site index values are used to measure forest productivity. In general, the site index is estimated by determining the average total height and age of dominant and co-dominant trees in a specified number of years in a well-stocked, even-aged stand.

Site index data has been determined for each forested soil in the survey area. Generally, at least three sites per soil series and at least three trees for each species were selected. Once a site index is determined for the individual sites, a standard deviation (SD) is calculated. To meet the National Forestry Manual standards, the SD must be below ten. If the SD is higher than ten, the culmination of mean annual increment (CMAI) is not calculated. If two or fewer sites were selected for a particular soil, the CMAI and SD were not calculated because of insufficient data. CMAI and age are estimated from the site index values for these soils (Smith and others, 2008).

In table 10, the *potential productivity* of merchantable or *common trees* on a soil is expressed as a site index and as a volume number. The *site index* is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even-aged, unmanaged stands. A *site index curve number* is also given for each tree species. These numbers are correlated to specific site index publications. Commonly grown trees are those that forest managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability. More detailed information regarding site index is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

The *volume of wood fiber*, a number, is the yield likely to be produced by the most important tree species. This number, expressed as cubic feet per acre per year and

calculated at the age of culmination of the mean annual increment (CMAI), indicates the amount of fiber produced in a fully stocked, even-aged, unmanaged stand.

Trees to manage are those that are preferred for planting, seeding, or natural regeneration and those that remain in the stand after thinning or partial harvest.

Hydric Soils

Table 11 lists the map unit components that are rated as hydric soils in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; USDA, 2010).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in “Soil Taxonomy” (Soil Survey Staff, 1999) and “Keys to Soil Taxonomy” (Soil Survey Staff, 2010) and in the “Soil Survey Manual” (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in “Field Indicators of Hydric Soils in the United States” (USDA, 2010).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by numbers in the table. The numbers indicate which of the following criteria were used to rate the soil as hydric. In some instances, a soil may satisfy more than one criteria; thus, more than one number is given in the table. Definitions for the numbers are as follows:

1. All Histels except Folistels and Histosols except Folists; or
2. Map unit components in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, or Andic, Cumulic, Pachic, or Vitrandic subgroups that:
   a. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
   b. Show evidence that the soil meets the definition of a hydric soil;
3. Map unit components that are frequently ponded for long duration or very long duration during the growing season that:
   a. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
   b. Show evidence that the soil meets the definition of a hydric soil; or
4. Map unit components that are frequently flooded for long duration or very long duration during the growing season that:
   a. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
   b. Show evidence that the soils meet the definition of a hydric soil.

Soil Properties

Data relating to soil properties are collected during the course of the soil survey.

Soil properties are determined by field examination of the soils and by laboratory index testing of some benchmark soils. Established standard procedures are followed. During the survey, many shallow borings are made and examined to identify and classify the soils and to delineate them on the soil maps. Samples are taken from some typical profiles and tested in the laboratory to determine particle-size distribution, plasticity, and compaction characteristics.

Estimates of soil properties are based on field examinations, on laboratory tests of samples from the survey area, and on laboratory tests of samples of similar soils in nearby areas. Tests verify field observations, verify properties that cannot be estimated accurately by field observation, and help to characterize key soils.

The estimates of soil properties are shown in tables. They include engineering properties, physical and chemical properties, and pertinent soil and water features.

Engineering Soil Properties

Table 12 gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. “Loam,” for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, “gravelly.” Textural terms are defined in the Glossary.

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages

are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

Physical Soil Properties

Table 13 shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In the table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In the table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In the table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at $^1/_3$- or $^1/_{10}$-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Saturated hydraulic conductivity (Ksat) refers to the ability of a soil to transmit water or air. The estimates in the table indicate the rate of water movement, in inches per hour, when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity (Ksat) is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. Volume change is influenced by the amount and type of clay minerals in the soil.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In the table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained by returning crop residue to the soil. Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in the table as the K factor (Kw and Kf) and the T factor. The values of K and T are calculated based on the soil properties provided in the database and the criteria for the factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the “National Soil Survey Handbook,” which

is available in local offices of the Natural Resources Conservation Service or on the Internet.

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Chemical Soil Properties

Table 14 shows estimates of some chemical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Cation-exchange capacity (CEC) is the total amount of exchangeable cations that can be held by the soil, expressed in terms of centimoles per kilogram. It commonly is measured at neutral pH of 7.0 (CEC-7), but it may be measured at some other stated pH value. Soils that have a low CEC hold fewer cations and may require more frequent applications of fertilizer than those that have a high CEC. The ability to retain cations minimizes the risk of ground-water pollution.

Effective cation-exchange capacity (ECEC) refers to the sum of exchangeable cations plus aluminum, expressed in terms of centimoles per kilogram. It is determined for soils that have natural pH of less than or equal to 5.5 and is a measure of the CEC at the natural pH. In soils with low pH, the ECEC more accurately reflects the actual CEC of the soils. Although CEC-7 is not actually present in these soils under natural conditions, the ECEC reflects the potential CEC if the soils are limed and the pH increased to neutral.

Soil reaction is a measure of acidity or alkalinity. The pH of each soil horizon is based on many field tests. For many soils, values have been verified by laboratory analyses. Soil reaction is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion.

Calcium carbonate equivalent is the percent of carbonates, by weight, in the fraction of the soil less than 2 millimeters in size. The availability of plant nutrients is influenced by the amount of carbonates in the soil.

Gypsum is expressed as a percent, by weight, of hydrated calcium sulfates in the fraction of the soil less than 20 millimeters in size. Gypsum is partially soluble in water. Soils that have a high content of gypsum may collapse if the gypsum is removed by percolating water.

Salinity is a measure of soluble salts in the soil at saturation. It is expressed as the electrical conductivity of the saturation extract, in millimhos per centimeter at 25 degrees C. Estimates are based on field and laboratory measurements at representative sites of nonirrigated soils. The salinity of irrigated soils is affected by the quality of the irrigation water and by the frequency of water application. Hence, the salinity of soils in individual fields can differ greatly from the value given in the table. Salinity affects the suitability of a soil for crop production, the stability of soil if used as construction material, and the potential of the soil to corrode metal and concrete.

Sodium adsorption ratio (SAR) is a measure of the amount of sodium (Na) relative to calcium (Ca) and magnesium (Mg) in the water extract from saturated soil paste. It is the ratio of the Na concentration divided by the square root of one-half of the Ca + Mg concentration. Soils that have SAR values of 13 or more may be characterized by an increased dispersion of organic matter and clay particles, reduced permeability and aeration, and a general degradation of soil structure.

Water Features

Table 15 gives estimates of various water features. The estimates are used in land use planning that involves engineering considerations.

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas.

The *months* in the table indicate the portion of the year in which the feature is most likely to be a concern.

Water table refers to a saturated zone in the soil. The table indicates, by month, depth to the top (*upper limit*) and base (*lower limit*) of the saturated zone in most years. Estimates of the upper and lower limits are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors or mottles (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

Ponding is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation. The table indicates *surface water depth* and the *duration* and *frequency* of ponding. Duration is expressed as *very brief* if less than 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, rare, occasional, and frequent. *None* means that ponding is not probable; *rare* that it is unlikely but possible under unusual weather conditions (the chance of ponding is nearly 0 percent to 5 percent in any year); *occasional* that it occurs, on the average, once or less in 2 years (the chance of ponding is 5 to 50 percent in any year); and *frequent* that it occurs, on the average, more than once in 2 years (the chance of ponding is more than 50 percent in any year).

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Duration and *frequency* are estimated. Duration is expressed as *extremely brief* if 0.1 hour to 4 hours, *very brief* if 4 hours to 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, very

rare, rare, occasional, frequent, and very frequent. *None* means that flooding is not probable; *very rare* that it is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year); *rare* that it is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year); *occasional* that it occurs infrequently under normal weather conditions (the chance of flooding is 5 to 50 percent in any year); *frequent* that it is likely to occur often under normal weather conditions (the chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year); and *very frequent* that it is likely to occur very often under normal weather conditions (the chance of flooding is more than 50 percent in all months of any year).

The information is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and levels of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate flood-prone areas at specific flood frequency levels.

Soil Features

Table 16 gives estimates of various soil features. The estimates are used in land use planning.

A *restrictive layer* is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. The table indicates the hardness and thickness of the restrictive layer, both of which significantly affect the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, saturated hydraulic conductivity (Ksat), content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel

or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low, moderate,* or *high,* is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low, moderate,* or *high*. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Classification of the Soils

The system of soil classification used by the National Cooperative Soil Survey has six categories (Soil Survey Staff, 1999 and 2010). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. The categories are defined in the following paragraphs.

ORDER. Twelve soil orders are recognized. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in *sol*. An example is Alfisol.

SUBORDER. Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Udalf (*Ud*, meaning humid, plus *alf*, from Alfisol).

GREAT GROUP. Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; type of saturation; and base status. Each great group is identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Hapludalfs (*Hapl*, meaning minimal horizonation, plus *udalf*, the suborder of the Alfisols that has a udic moisture regime).

SUBGROUP. Each great group has a typic subgroup. Other subgroups are intergrades or extragrades. The typic subgroup is the central concept of the great group; it is not necessarily the most extensive. Intergrades are transitions to other orders, suborders, or great groups. Extragrades have some properties that are not representative of the great group but do not indicate transitions to any other taxonomic class. Each subgroup is identified by one or more adjectives preceding the name of the great group. The adjective *Typic* identifies the subgroup that typifies the great group. An example is Typic Hapludalfs.

FAMILY. Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties are those of horizons below plow depth where there is much biological activity. Among the properties and characteristics considered are particle-size class, mineralogy class, cation-exchange activity class, soil temperature regime, soil depth, and reaction class. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is fine-loamy, mixed, active, mesic Typic Hapludalfs.

SERIES. The series consists of soils within a family that have horizons similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile.

Table 17 indicates the order, suborder, great group, subgroup, and family of the soil series in the survey area.

Taxonomic Units and Their Morphology

In this section, each taxonomic unit recognized in the survey area is described. Characteristics of the soil and the material in which it formed are identified for each unit. A pedon, a small three-dimensional area of soil, that is typical of the taxonomic unit in the survey area is described. The detailed description of each soil horizon follows standards in the "Soil Survey Manual" (Soil Survey Division Staff, 1993) and in the "Field Book for Describing and Sampling Soils" (Schoeneberger and others, 2012). Many of the technical terms used in the descriptions are defined in "Soil Taxonomy" (Soil Survey Staff, 1999) and in "Keys to Soil Taxonomy" (Soil Survey Staff, 2010). Following the pedon description is the range of important characteristics of the soils in the unit.

Alecanyon Series

Depth class: Very deep
Drainage class: Somewhat excessively drained
Position on landscape: Treads and risers of outwash plains
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of loess and volcanic ash in the upper part
Slope range: 0 to 40 percent
Elevation: 1,980 to 2,550 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Sandy-skeletal, mixed, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 7 inches; brown (10YR 4/3) gravelly ashy coarse sandy loam, very dark brown (10YR 2/2) moist; moderate fine and medium subangular blocky structure; very friable, slightly hard, nonsticky and nonplastic; common very fine and fine roots; many very fine interstitial pores and common very fine tubular pores; 10 percent cobbles and 15 percent rounded gravel; slightly acid; clear smooth boundary.

BA—7 to 11 inches; brown (10YR 4/3) very gravelly ashy coarse sandy loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure; very friable, slightly hard, nonsticky and nonplastic; common very fine and fine roots; many very fine interstitial pores and common very fine tubular pores; 20 percent cobbles and 30 percent rounded gravel; slightly acid; abrupt wavy boundary.

BC—11 to 16 inches; yellowish brown (10YR 5/4) extremely cobbly loamy coarse sand, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; very friable, soft, nonsticky and nonplastic; common very fine and few fine roots; common very fine interstitial and tubular pores; 25 percent cobbles, 40 percent gravel, and 2 percent rounded stones; neutral; abrupt wavy boundary.

Bq—16 to 39 inches; variegated extremely gravelly coarse sand; single grain; loose, nonsticky and nonplastic; common very fine and few fine roots; common very fine and few fine and medium interstitial pores; common patchy distinct very pale brown (10YR 8/3) silica on bottom surfaces of rock fragments; 25 percent cobbles, 45 percent gravel, and 2 percent rounded stones; neutral; clear smooth boundary.

C—39 to 60 inches; variegated very gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few very fine and fine roots; common very fine and few fine interstitial pores; 35 percent rounded gravel, 15 percent cobbles, and 2 percent rounded stones; neutral.

Typical Pedon Location

Map unit in which located: Cheney-Alecanyon complex, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 2 miles northeast of Airway Heights, Washington; about 1,400 feet north and 600 feet west of the southeast corner of section 11, T. 25 N., R. 41 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 14 inches
Thickness of volcanic ash influence—10 to 14 inches
Rock fragment content in control section—45 to 75 percent
Depth to sandy-skeletal glacial outwash deposits—10 to 20 inches
Percentage of surface covered with stones—0 to 3 percent

A horizon
Value—4 or 5 dry
Chroma—2 or 3 moist
Texture—ashy coarse sandy loam
Clay content—5 to 15 percent
Gravel content—15 to 30 percent
Cobble content—5 to 25 percent
Total rock fragment content—20 to 35 percent
Reaction—slightly acid, neutral

BA horizon
Value—4 to 6 dry
Clay content—5 to 15 percent
Gravel content—20 to 45 percent
Cobble content—5 to 30 percent
Total rock fragment content—35 to 60 percent
Reaction—slightly acid, neutral

BC horizon
Value—4 to 6 dry
Texture—loamy coarse sand, coarse sandy loam
Clay content—2 to 10 percent
Gravel content—25 to 50 percent
Cobble content—5 to 40 percent
Stone content—0 to 5 percent
Total rock fragment content—45 to 70 percent
Reaction—slightly acid to slightly alkaline

Bq horizon
Texture—loamy coarse sand, coarse sand
Clay content—0 to 4 percent
Gravel content—25 to 75 percent
Cobble content—5 to 50 percent
Stone content—0 to 25 percent
Boulder content—0 to 10 percent
Total rock fragment content—45 to 85 percent
Reaction—neutral, slightly alkaline

C horizon (where present)
Texture—loamy coarse sand, coarse sand
Clay content—0 to 2 percent
Gravel content—25 to 75 percent

Cobble content—5 to 50 percent
Stone content—0 to 25 percent
Boulder content—0 to 10 percent
Total rock fragment content—45 to 85 percent
Reaction—neutral, slightly alkaline

Aquepts

Depth class: Very deep
Drainage class: Poorly drained, very poorly drained
Position on landscape: Drainageways, stream terraces, flood plains
Parent material: Alluvium with loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Elevation: 2,000 to 2,600 feet
Average annual precipitation: 25 to 30 inches
Average annual air temperature: 43 to 46 degrees F
Frost-free period: 80 to 110 days

Taxonomic class: Aquepts

Representative Pedon

Unless otherwise indicated, colors in the description are for moist soil.

A1—0 to 4 inches; very dark grayish brown (10YR 3/2) ashy loam, grayish brown (10YR 5/2) dry; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine, fine, and medium roots; many very fine and fine tubular pores; 2 percent fine mica flakes; slightly acid; clear smooth boundary.

A2—4 to 12 inches; very dark grayish brown (10YR 3/2) ashy loam, light brownish gray (10YR 6/2) dry; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine tubular pores; 2 percent fine faint iron depletions and 2 percent fine distinct masses of oxidized iron; 2 percent fine mica flakes; neutral; gradual smooth boundary.

AB—12 to 17 inches; dark grayish brown (10YR 4/2) ashy loam, light brownish gray (10YR 6/2) dry; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; 5 percent fine distinct masses of oxidized iron and 10 percent fine faint iron depletions; 2 percent fine mica flakes; moderately acid; clear smooth boundary.

2Bw—17 to 27 inches; olive brown (2.5Y 4/3) sandy loam, light yellowish brown (2.5Y 6/3) dry; weak medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine roots; many very fine and fine interstitial pores; 5 percent fine distinct masses of oxidized iron and 10 percent fine distinct iron depletions; 2 percent fine mica flakes; 5 percent gravel; moderately acid; abrupt smooth boundary.

2C1—27 to 40 inches; dark grayish brown (2.5Y 4/2) loamy sand, light brownish gray (2.5Y 6/2) dry; massive; slightly hard, friable, nonsticky and nonplastic; few very fine roots; many very fine and fine interstitial pores; 5 percent fine distinct iron depletions and 10 percent fine distinct masses of oxidized iron; 2 percent fine mica flakes; 10 percent gravel; slightly acid; gradual wavy boundary.

2C2—40 to 50 inches; olive brown (2.5Y 4/3) gravelly loamy coarse sand, light yellowish brown (2.5Y 6/3) dry; single grain; loose, nonsticky and nonplastic; many very fine and fine interstitial pores; 20 percent fine faint iron depletions and

20 percent fine distinct masses of oxidized iron; 5 percent fine mica flakes; 30 percent gravel; moderately acid; gradual wavy boundary.

2C3—50 to 60 inches; dark grayish brown (2.5Y 4/2) very gravelly coarse sand, light brownish gray (2.5Y 6/2) dry; single grain; loose, nonsticky and nonplastic; many very fine and fine interstitial pores; 10 percent fine faint iron depletions and 10 percent fine distinct masses of oxidized iron; 5 percent fine mica flakes; 40 percent gravel; slightly acid.

Representative Pedon Location

Map unit in which located: Aquepts ashy loam, frigid, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 230 feet south and 635 feet west of the northeast corner of section 3, T. 23 N., R. 45 E.

Range in Characteristics

Profile

Thickness of volcanic ash influence—12 to 30 inches

Depth to apparent water table—4 to 12 inches in January through May, more than 12 inches in June through December

Depth to redoximorphic features—4 to 8 inches

A1 horizon

Value—3 or 4 moist, 5 or 6 dry

Chroma—1 or 2 moist or dry

Clay content—8 to 12 percent

Gravel content—0 to 10 percent

Reaction—slightly acid, neutral

A2 horizon

Value—3 or 4 moist, 5 or 6 dry

Chroma—1 or 2 moist or dry

Texture—ashy loam, ashy sandy loam

Clay content—8 to 12 percent

Gravel content—0 to 10 percent

Reaction—slightly acid, neutral

AB horizon

Value—3 or 4 moist, 5 or 6 dry

Chroma—1 or 2 moist or dry

Texture—ashy loam, ashy sandy loam

Clay content—8 to 12 percent

Gravel content—0 to 10 percent

Reaction—moderately acid to neutral

2Bw horizon

Hue—2.5Y, 10YR

Value—3 to 5 moist, 5 or 6 dry

Chroma—2 or 3 moist or dry

Texture—sandy loam, loam

Clay content—8 to 12 percent

Gravel content—0 to 10 percent

Reaction—moderately acid to neutral

2C horizon

Hue—7.5YR to 2.5Y, neutral

Value—2.5 to 4 moist, 5 or 6 dry

Chroma—2 or 3 moist or dry
Texture—stratified loamy sand, loamy coarse sand, or coarse sand
Clay content—0 to 5 percent
Gravel content—5 to 40 percent
Cobble content—0 to 10 percent
Total rock fragment content—5 to 50 percent
Reaction—moderately acid to neutral

Ardenvoir Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Mountains, hills
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 5 to 65 percent
Elevation: 2,190 to 4,300 feet
Average annual precipitation: 25 to 35 inches
Average annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 140 days

Taxonomic class: Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; undecomposed and decomposed needles and twigs.
Oe—1 to 2 inches; partially decomposed needles and twigs mixed with 1980's Mount St. Helens volcanic ash.
A—2 to 6 inches; brown (10YR 5/3) gravelly ashy silt loam, dark yellowish brown (10YR 3/4) moist; weak very fine and fine granular structure; soft, very friable, nonsticky and slightly plastic; many fine and medium and few coarse roots; many fine irregular pores; 20 percent gravel; neutral; clear wavy boundary.
Bw1—6 to 11 inches; light yellowish brown (10YR 6/4) gravelly ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common fine, medium, and coarse roots; many very fine and fine tubular pores; 20 percent gravel; slightly acid; gradual wavy boundary.
Bw2—11 to 19 inches; very pale brown (10YR 7/4) gravelly loam, yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few fine to coarse roots; many very fine and fine tubular pores; 20 percent gravel; slightly acid; gradual wavy boundary.
C1—19 to 39 inches; very pale brown (10YR 7/4) very cobbly loam, yellowish brown (10YR 5/4) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; few fine, medium, and coarse roots; common very fine and fine tubular and irregular pores; 15 percent gravel and 25 percent cobbles; moderately acid; gradual wavy boundary.
C2—39 to 48 inches; very pale brown (10YR 7/3) extremely cobbly loam, light yellowish brown (10YR 6/4) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; few fine and medium roots; few very fine and fine tubular pores; 25 percent gravel, 45 percent cobbles, and 5 percent flagstones; moderately acid; gradual wavy boundary.
Cr—48 inches; fractured metasedimentary rock.

Typical Pedon Location

Map unit in which located: Huckle-Ardenvoir association, 15 to 35 percent slopes
Location in survey area: Benewah County, Idaho, near Mary Minerva McCroskey Memorial State Park; about 740 feet south and 220 feet west of the northeast corner of section 2, T. 43 N., R. 5 W.

Range in Characteristics

Profile
Depth to bedrock—40 to 60 inches (paralithic)
Depth to material more than 60 percent rock fragments—10 to 20 inches (dry phases)
Thickness of volcanic ash influence—7 to 12 inches

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—5 to 15 percent
Gravel content—15 to 30 percent
Reaction—slightly acid, neutral

AB horizon (where present)
Hue—10YR, 7.5YR
Value—5 dry, 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—5 to 15 percent
Gravel content—15 to 30 percent
Reaction—slightly acid, neutral

Bw horizon
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy silt loam or ashy loam in upper part; loam or silt loam in lower part
Clay content—5 to 15 percent
Gravel content—15 to 45 percent
Channer content—0 to 10 percent
Cobble content—0 to 45 percent
Total rock fragment content—20 to 70 percent
Reaction—slightly acid, neutral

C horizon
Hue—10YR, 2.5Y
Value—7 or 8 dry, 5 to 7 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam, sandy loam
Clay content—5 to 10 percent
Gravel content—15 to 45 percent
Channer content—0 to 70 percent
Cobble content—15 to 45 percent
Stone content—0 to 35 percent
Flagstone content—0 to 15 percent
Total rock fragment content—40 to 85 percent
Reaction—strongly acid to slightly acid

Ardtoo Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes and summits of mountains and hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, and schist
Slope range: 3 to 60 percent
Elevation: 2,000 to 4,800 feet
Average annual precipitation: 25 to 35 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, leaves, and twigs.
A—1 to 4 inches; brown (10YR 5/3) gravelly ashy sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine, fine, and medium roots; many very fine and fine irregular pores; 20 percent gravel; slightly acid; clear smooth boundary.
Bw1—4 to 7 inches; brown (10YR 5/3) gravelly ashy sandy loam, dark yellowish brown (10YR 3/4) moist; weak fine and medium subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine, fine, and medium roots; common fine tubular pores and many very fine and fine irregular pores; 20 percent gravel; slightly acid; clear wavy boundary.
Bw2—7 to 15 inches; pale brown (10YR 6/3) very gravelly ashy sandy loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; common fine tubular pores and common very fine and fine irregular pores; 25 percent gravel and 10 percent cobbles; slightly acid; clear wavy boundary.
Bw3—15 to 21 inches; very pale brown (10YR 7/3) very cobbly sandy loam, yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine and few medium and coarse roots; common fine tubular pores and many very fine and fine irregular pores; 10 percent fine and medium mica flakes; 25 percent gravel and 20 percent cobbles; slightly acid; gradual wavy boundary.
BC—21 to 37 inches; very pale brown (10YR 8/2) very gravelly coarse sandy loam, very pale brown (10YR 7/3) moist; weak coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine, fine, medium, and coarse roots; many very fine and fine irregular pores; 10 percent fine and medium mica flakes; 40 percent gravel and 10 percent cobbles; strongly acid; gradual wavy boundary.
C—37 to 51 inches; very pale brown (10YR 8/2) very gravelly loamy coarse sand, very pale brown (10YR 7/3) moist; massive, slightly hard, friable, nonsticky and nonplastic; few very fine, fine, medium, and coarse roots; many very fine and fine irregular pores; 10 percent fine and medium mica flakes; 50 percent gravel and 5 percent cobbles; strongly acid; clear wavy boundary.
Cr—51 inches; moderately weathered granite.

Typical Pedon Location

Map unit in which located: Blackprince-Ardtoo complex, 30 to 60 percent slopes
Location in survey area: Spokane County, Washington, about 5 miles southeast of Elk, Washington; about 130 feet east and 2,310 feet north of the southwest corner of section 7, T. 29 N., R. 45 E.

Range in Characteristics

Profile
Depth to bedrock—40 to 60 inches (paralithic)
Thickness of volcanic ash influence—7 to 20 inches

A horizon
Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 moist or dry
Clay content—4 to 8 percent
Gravel content—15 to 25 percent
Reaction—slightly acid, neutral

Bw1 and Bw2 horizons
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy coarse sandy loam
Clay content—4 to 8 percent
Gravel content—20 to 35 percent
Cobble content—0 to 10 percent
Total rock fragment content—20 to 45 percent
Reaction—slightly acid, neutral

Bw3 horizon
Hue—10YR, 7.5YR
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, coarse sandy loam
Clay content—6 to 10 percent
Gravel content—25 to 35 percent
Cobble content—10 to 25 percent
Total rock fragment content—35 to 55 percent
Reaction—moderately acid, slightly acid

BC horizon
Hue—2.5Y, 10YR
Value—7 or 8 dry, 5 to 7 moist
Chroma—2 to 4 dry, 3 or 4 moist
Texture—coarse sandy loam
Clay content—4 to 8 percent
Gravel content—35 to 50 percent
Cobble content—0 to 15 percent
Stone content—0 to 10 percent
Total rock fragment content—35 to 75 percent
Reaction—strongly acid to slightly acid

C horizon
Hue—10YR, variegated
Value—7 or 8 dry, 6 or 7 moist
Chroma—2 or 3 dry, 3 moist
Texture—loamy coarse sand, coarse sandy loam
Clay content—2 to 5 percent
Gravel content—35 to 55 percent
Cobble content—0 to 20 percent
Stone content—0 to 10 percent
Total rock fragment content—35 to 75 percent
Reaction—strongly acid to slightly acid

Arson Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes of mountains and hills
Parent material: Volcanic ash and loess over colluvium and residuum derived from siltite and fine-grained quartzite
Slope range: 10 to 40 percent
Elevation: 2,250 to 3,600 feet
Average annual precipitation: 25 to 33 inches
Average annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Fine-loamy, mixed, superactive, frigid Vitrandic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, twigs, leaves, bark, and cones.
Oe—1 to 2 inches; moderately decomposed organic matter mixed with 1980's Mount St. Helens volcanic ash.
A—2 to 5 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; moderate very fine and fine granular structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine and few medium tubular pores; 2 percent gravel; slightly acid; clear smooth boundary.
BA—5 to 9 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 3/3) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine and few medium and coarse tubular pores; 2 percent gravel; slightly acid; clear smooth boundary.
EBt—9 to 15 inches; light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; moderate medium and coarse angular blocky structure; moderately hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine and few medium and coarse tubular pores; few faint clay films on peds and in pores; 5 percent gravel; moderately acid; gradual wavy boundary.
Bt1—15 to 27 inches; yellowish brown (10YR 5/4) and light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; weak coarse prismatic structure parting to moderate medium angular blocky; hard, firm, slightly sticky and slightly plastic; few very fine, fine, medium, and coarse roots; many very fine and fine, common medium, and few coarse tubular pores; common faint and few

distinct clay films on faces of peds and in pores; few faint and distinct silt coatings on faces of peds and in pores; 10 percent gravel and 5 percent paragravel; moderately acid; gradual wavy boundary.

Bt2—27 to 38 inches; yellowish brown (10YR 5/4) and light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; weak coarse and very coarse prismatic structure parting to moderate medium and coarse angular blocky; hard, firm, moderately sticky and slightly plastic; few fine and medium roots; many very fine and fine, common medium, and few coarse tubular pores; common faint and distinct clay films that are brown (7.5YR 5/4 and 4/4) when dry and on faces of peds and in pores; few faint and distinct silt coatings on faces of peds and in pores; 10 percent gravel and 5 percent paragravel; strongly acid; clear wavy boundary.

2Bt3—38 to 43 inches; yellowish brown (10YR 5/4) extremely gravelly silt loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few fine roots; common very fine and fine and few medium and coarse tubular and irregular pores; common faint and distinct clay films that are light brown (7.5YR 6/4) and brown (7.5YR 5/4) when dry and on faces of peds, in pores, and on rock fragments; few faint and distinct silt coatings on faces of peds; 45 percent gravel, 10 percent paragravel, and 10 percent cobbles; strongly acid; gradual wavy boundary.

2BCt—43 to 57 inches; light brown (10YR 6/4) very gravelly silt loam, dark yellowish brown (10YR 4/4 and 5/4) moist; weak fine subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few fine roots; common very fine and fine and few medium and coarse tubular and irregular pores; common distinct and prominent clay films that are brown (7.5YR 4/4) and reddish brown (5YR 5/4) when dry and on rock fragments; few faint and distinct silt coatings on faces of peds; 35 percent gravel, 10 percent paragravel, and 5 percent cobbles; strongly acid; clear irregular boundary.

2Crt—57 inches; weathered, fractured siltite.

Typical Pedon Location

Map unit in which located: Arson-Lotuspoint complex, 10 to 40 percent slopes

Location in survey area: Benewah County, Idaho, about 5 miles northwest of the town of St. Maries, Idaho; about 870 feet north and 2,480 feet west of the southeast corner of section 29, T. 47 N., R. 2 W.

Range in Characteristics

Profile

Depth to bedrock—40 to 60 inches (paralithic)
Thickness of volcanic ash influence—7 to 10 inches

A horizon

Value—4 to 6 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—10 to 18 percent
Gravel content—0 to 5 percent
Reaction—moderately acid, slightly acid

BA horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 dry or moist
Clay content—12 to 20 percent
Gravel content—0 to 5 percent
Reaction—moderately acid, slightly acid

EBt horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Clay content—17 to 23 percent
Gravel content—0 to 5 percent

Bt horizon
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Clay content—18 to 26 percent
Gravel content—0 to 10 percent
Paragravel content—0 to 5 percent
Total rock fragment content—0 to 10 percent
Reaction—strongly acid, moderately acid

2Bt and 2BCt horizons
Hue—10YR, 7.5YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—4 dry or moist
Texture—silt loam, loam
Clay content—16 to 26 percent
Gravel content—30 to 50 percent
Cobble content—0 to 10 percent
Paragravel content—0 to 25 percent
Total rock fragment content—30 to 70 percent
Reaction—strongly acid, moderately acid

Athena Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Loess hills
Parent material: Loess
Slope range: 0 to 60 percent
Elevation: 2,100 to 2,750 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Pachic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Ap—0 to 4 inches; very dark grayish brown (10YR 3/2) silt loam, dark grayish brown (10YR 4/2) dry; weak medium platy structure breaking to moderate medium granular; very friable, soft, slightly sticky and slightly plastic; many very fine and common fine roots throughout; common very fine tubular pores; neutral; abrupt smooth boundary.
A1—4 to 8 inches; very dark brown (10YR 2/2) silt loam, dark grayish brown (10YR 4/2) dry; moderate medium and coarse granular structure; very friable, soft, slightly sticky and slightly plastic; many very fine and few fine roots throughout; common very fine irregular pores; neutral; clear wavy boundary.
A2—8 to 13 inches; very dark grayish brown (10YR 3/2) silt loam, brown (10YR 4/3) dry; moderate fine and medium granular structure; very friable, soft, slightly sticky

and slightly plastic; common very fine roots throughout; common very fine irregular pores; neutral; clear wavy boundary.

ABt—13 to 26 inches; dark brown (10YR 3/3) silt loam, dark yellowish brown (10YR 4/4) dry; moderate medium subangular blocky structure; friable, slightly hard, slightly sticky and slightly plastic; common very fine roots throughout; common very fine irregular pores; 1 percent faint patchy clay films in pores; neutral; clear wavy boundary.

Bt1—26 to 42 inches; dark yellowish brown (10YR 4/4) silt loam, yellowish brown (10YR 5/4) dry; moderate medium subangular blocky structure; friable, slightly hard, moderately sticky and moderately plastic; common very fine roots throughout; common very fine irregular pores; 5 percent faint patchy clay films on faces of peds; slightly alkaline; clear wavy boundary.

Bt2—42 to 54 inches; dark yellowish brown (10YR 4/4) silt loam, yellowish brown (10YR 5/4) dry; moderate medium subangular blocky structure; friable, slightly hard, slightly sticky and moderately plastic; few very fine roots throughout; few very fine irregular pores; 1 percent faint patchy clay films on faces of peds; moderately alkaline; clear wavy boundary.

Bt3—54 to 60 inches; dark yellowish brown (10YR 3/4) silt loam, yellowish brown (10YR 5/4) dry; moderate medium subangular blocky structure; friable, slightly hard, slightly sticky and moderately plastic; few very fine roots throughout; few very fine irregular pores; 1 percent faint patchy clay films on faces of peds; moderately alkaline.

Typical Pedon Location

Map unit in which located: Athena silt loam, 8 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 7,000 feet south and 163 feet west of the intersection of Martin and Reed Roads; about 1,074 feet north and 2,345 feet east of the southwest corner of section 34, T. 21 N., R. 40 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—20 to 40 inches
Depth to secondary carbonates (where present)—more than 43 inches
Clay content in particle-size control section—18 to 27 percent

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—silt loam
Clay content—16 to 22 percent
Reaction—strongly acid to neutral

Bt or Bw horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—18 to 27 percent
Gravel content—0 to 5 percent
Reaction—neutral to moderately alkaline

Bk horizon

Below a depth of 43 inches in some pedons

Bellslake Series

Depth class: Very deep
Drainage class: Very poorly drained
Position on landscape: Depressions of low stream terraces and flood plains
Parent material: Alluvium mixed with volcanic ash and loess over decomposed herbaceous material
Slope range: 0 to 3 percent
Elevation: 1,820 to 2,190 feet
Average annual precipitation: 20 to 25 inches
Average annual air temperature: 42 to 46 degrees F
Frost-free period: 80 to 120 days

Taxonomic class: Coarse-silty, mixed, superactive, nonacid, frigid Aquandic Humaquepts

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Ag1—0 to 6 inches; black (10YR 2/1) mucky ashy silt loam, dark gray (10YR 4/1) dry; moderate fine and medium granular structure; friable, slightly hard, slightly sticky and slightly plastic; many fine and medium roots; many fine and medium irregular pores; 20 percent medium prominent masses of oxidized iron that are strong brown (7.5YR 4/6) moist; 12 percent organic matter; slightly acid; abrupt wavy boundary.

Ag2—6 to 10 inches; very dark grayish brown (10YR 3/2), stratified mucky ashy silt loam to very fine sandy loam, grayish brown (10YR 5/2) dry; weak medium subangular blocky structure; friable, slightly hard, nonsticky and nonplastic; common fine and medium roots; common fine and medium irregular pores; 10 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron and 20 percent fine distinct light brownish gray (10YR 6/2) iron depletions; 10 percent organic matter; slightly acid; abrupt wavy boundary.

A—10 to 18 inches; dark brown (10YR 3/3), stratified mucky ashy silt loam to very fine sandy loam, brown (10YR 5/3) dry; weak medium subangular blocky structure; friable, slightly hard, nonsticky and nonplastic; common fine and medium roots; common fine and medium irregular pores; 5 percent medium distinct masses of oxidized iron, strong brown (7.5YR 4/6) moist, and 5 percent fine distinct iron depletions, light brownish gray (10YR 6/2) moist; 10 percent organic matter; slightly acid; abrupt wavy boundary.

Bg—18 to 30 inches; dark grayish brown (10YR 4/2) mucky silt loam, light brownish gray (10YR 6/2) dry; weak coarse subangular blocky structure; friable, slightly hard, slightly sticky and slightly plastic; common fine roots; common fine and medium irregular pores; 5 percent distinct medium masses of oxidized iron, dark brown (7.5YR 3/4) moist, and 5 percent prominent medium masses of oxidized iron, strong brown (7.5YR 4/6) moist; 12 percent organic matter; slightly acid; abrupt wavy boundary.

Oa—30 to 48 inches; muck (highly decomposed plant material) that is very dark gray (10YR 3/1) and brown (10YR 4/3) broken face, black (10YR 2/1) rubbed; 10 percent fiber, 1 percent rubbed; 20 percent mineral material; massive; nonsticky and nonplastic; few very fine roots; moderately acid; abrupt wavy boundary.

Oe1—48 to 55 inches; mucky peat (moderately decomposed plant material) that is dark yellowish brown (10YR 4/4) broken face, very dark grayish brown (10YR 3/2) rubbed; about 60 percent fiber, 10 percent rubbed; massive; nonsticky and nonplastic; few very fine roots; moderately acid; strong presence of hydrogen sulfide; abrupt wavy boundary.

Oe2—55 to 65 inches; mucky peat (moderately decomposed plant material) that is dark yellowish brown (10YR 4/6) broken face, very dark brown (10YR 2/2) rubbed; about 75 percent fiber, 40 percent rubbed; massive; few very fine roots; moderately acid; strong presence of hydrogen sulfide.

Typical Pedon Location

Map unit in which located: Pywell-Bellslake complex, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 5 miles north of Moab, Washington; about 1,920 feet east and 1,160 feet south of the northwest corner of section 34, T. 27 N., R. 45 E.

Range in Characteristics

Profile
Thickness of umbric epipedon—10 to 20 inches
Depth to apparent water table—surface to a depth of 12 inches in January through June, more than 6 inches in July through September
Depth to redoximorphic features—0 to 10 inches
Thickness of volcanic ash influence—7 to 18 inches
Depth to organic material—30 to 45 inches
Reaction—strongly acid to slightly acid

Ag horizon
Value—2 or 3 moist, 4 or 5 dry
Chroma—1 or 2 moist or dry
Texture—ashy silt loam, mucky ashy silt loam, stratified mucky ashy silt loam to very fine sandy loam
Content of clay—8 to 12 percent
Contrast class of redoximorphic features—distinct or prominent

A horizon
Clay content—8 to 12 percent

Bg horizon
Chroma—1 or 2 moist or dry
Texture—mucky silt loam, silt loam, ashy silt loam, mucky ashy silt loam
Content of clay—8 to 12 percent
Contrast class of redoximorphic features—distinct or prominent

Oa horizon
Value—2 to 4 moist
Chroma—1 to 3 moist
Content of unrubbed fiber—10 to 30 percent
Content of rubbed fiber—1 to 10 percent
Content of wood fragments—0 to 5 percent

Oe horizon
Value—2 to 4 dry or moist
Chroma—2 to 6 moist
Content of unrubbed fiber—60 to 85 percent
Content of rubbed fiber—10 to 45 percent
Content of wood fragments—0 to 5 percent

Blackprince Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Shoulders and backslopes of mountains and hills

Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite
Slope range: 8 to 60 percent
Elevation: 1,800 to 4,000 feet
Average annual precipitation: 21 to 35 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 0.5 inch; slightly decomposed twigs, leaves, grass, cones, and needles.
Oe—0.5 to 1 inch; moderately decomposed plant material.
A—1 to 5 inches; brown (10YR 5/3) gravelly ashy coarse sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; many very fine and fine and common medium roots; many very fine and fine tubular and irregular pores; 25 percent gravel; slightly acid; clear wavy boundary.
Bw—5 to 19 inches; brown (10YR 5/3) very gravelly ashy sandy loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; common very fine and fine tubular and irregular pores; 40 percent gravel; moderately acid; gradual wavy boundary.
Bt—19 to 26 inches; pale brown (10YR 6/3) very gravelly coarse sandy loam, yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; 2 percent distinct clay films on surface of peds, one 2-millimeter-thick lamella that is brown (7.5YR 5/4) moist; few very fine and fine roots; common very fine and fine irregular pores and few fine tubular pores; 2 percent very fine mica flakes; 50 percent gravel; moderately acid; gradual wavy boundary.
BCt—26 to 36 inches; very pale brown (10YR 7/3) very gravelly loamy coarse sand, light yellowish brown (10YR 6/4) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; two discontinuous 2-millimeter-thick lamellae that are brown (7.5YR 4/4) moist; few very fine and fine roots; common very fine and fine irregular pores; 2 percent very fine mica flakes; 55 percent gravel; moderately acid; clear wavy boundary.
Cr—36 inches; highly weathered granite.

Typical Pedon Location

Map unit in which located: Blackprince-Ardtoo complex, 30 to 60 percent slopes
Location in survey area: Spokane County, Washington, about 6 miles east of Elk, Washington; about 1,750 feet east and 1,560 feet north of the southwest corner of section 17, T. 29 N., R. 45 E.

Range in Characteristics

Profile
Depth to bedrock—20 to 40 inches (paralithic)
Thickness of volcanic ash influence—9 to 20 inches

A horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Clay content—6 to 12 percent

Gravel content—15 to 25 percent
Reaction—slightly acid, neutral

Bw horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy coarse sandy loam
Clay content—6 to 12 percent
Gravel content—35 to 45 percent
Reaction—moderately acid, slightly acid

Bt horizon
Hue—10YR, 7.5YR
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—coarse sandy loam, sandy loam
Clay content—6 to 12 percent
Gravel content—40 to 55 percent
Cobble content—0 to 5 percent
Total rock fragment content—40 to 55 percent
Reaction—moderately acid, slightly acid

BC and BCt horizons
Hue—2.5Y, 10YR
Value—5 or 6 moist
Chroma—3 or 4 dry or moist
Texture—loamy coarse sand, sandy loam, coarse sandy loam
Clay content—0 to 5 percent
Gravel content—40 to 60 percent
Cobble content—0 to 10 percent
Total rock fragment content—40 to 60 percent
Reaction—moderately acid, slightly acid

A C horizon is in some pedons.

Bobbitt Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes and summits of basalt plateaus
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 25 percent
Elevation: 1,900 to 2,700 feet
Average annual precipitation: 18 to 23 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, isotic, mesic Vitrandic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, leaves, and twigs.
Oe—1 to 2 inches; moderately decomposed needles, leaves, and twigs mixed with 1980's Mount St. Helens volcanic ash.

A—2 to 6 inches; brown (10YR 5/3) cobbly ashy loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine and common medium and coarse roots; many fine tubular pores and many very fine irregular pores; 10 percent gravel, 15 percent cobbles, and 2 percent stones; neutral; clear wavy boundary.

AB—6 to 16 inches; brown (10YR 5/3) very cobbly ashy loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; many very fine and fine and common medium and coarse roots; common very fine and fine tubular pores; 25 percent gravel and 30 percent cobbles; neutral; clear wavy boundary.

Bt—16 to 33 inches; yellowish brown (10YR 5/4) extremely cobbly loam, dark brown (10YR 3/3) moist; moderate fine and medium subangular blocky structure; hard, firm, moderately sticky and moderately plastic; common very fine, fine, and medium and few coarse roots; common very fine and fine tubular pores; 40 percent faint clay films on faces of peds; 20 percent gravel, 50 percent cobbles, and 5 percent stones; slightly acid; abrupt wavy boundary.

BCt—33 to 38 inches; strong brown (7.5YR 5/6) and brown (10YR 5/3) extremely cobbly clay loam, brown (7.5YR 4/4) and dark grayish brown (10YR 4/2) moist; weak medium subangular blocky structure; very hard, very firm, moderately sticky and moderately plastic; few very fine and fine roots; few very fine tubular pores; 20 percent distinct clay films on rock fragments; 10 percent gravel and 65 percent cobbles; slightly acid; clear wavy boundary.

R—38 inches; unweathered basalt.

Typical Pedon Location

Map unit in which located: Bobbitt-Lacy complex, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 0.75 mile north of Valleyford, Washington; about 440 feet west and 1,290 feet south of the northeast corner of section 28, T. 24 N., R. 44 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—7 to 18 inches
Thickness of volcanic ash influence—7 to 14 inches
Depth to bedrock—20 to 40 inches (lithic)

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—10 to 20 percent
Gravel content—5 to 10 percent
Cobble content—10 to 25 percent
Stone content—0 to 2 percent
Total rock fragment content—15 to 30 percent
Reaction—slightly acid, neutral

AB horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy loam, ashy silt loam
Clay content—10 to 20 percent
Gravel content—15 to 30 percent
Cobble content—15 to 30 percent

Stone content—0 to 2 percent
Total rock fragment content—30 to 55 percent
Reaction—slightly acid, neutral

Bt horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam
Clay content—18 to 24 percent
Gravel content—15 to 30 percent
Cobble content—20 to 50 percent
Stone content—0 to 5 percent
Total rock fragment content—35 to 85 percent
Reaction—moderately acid to neutral

BCt horizon
Hue—10YR, 7.5YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 to 6 dry, 2 to 4 moist
Texture—clay loam, loam
Clay content—20 to 30 percent
Gravel content—10 to 30 percent
Cobble content—30 to 65 percent
Stone content—0 to 5 percent
Total rock fragment content—55 to 85 percent
Reaction—moderately acid to neutral

Bong Series

Depth class: Very deep
Drainage class: Somewhat excessively drained
Position on landscape: Treads, risers, and escarpments of outwash plains
Parent material: Sandy glaciofluvial deposits mixed with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 30 percent
Elevation: 1,600 to 2,500 feet
Average annual precipitation: 15 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Sandy, mixed, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 11 inches; dark grayish brown (10YR 4/2) ashy sandy loam, very dark brown (10YR 2/2) moist; weak medium granular structure; slightly hard, friable, nonsticky and nonplastic; common fine roots; many fine interstitial and tubular pores; neutral; clear smooth boundary.

Bw—11 to 22 inches; yellowish brown (10YR 5/4) sandy loam, brown (7.5YR 4/4) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; common fine roots; many fine irregular pores; neutral; clear wavy boundary.

BC—22 to 28 inches; pale brown (10YR 6/3) gravelly coarse sandy loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; common fine roots; few fine irregular pores; 20 percent gravel; neutral; abrupt wavy boundary.
C—28 to 60 inches; multicolored coarse sand; single grain; loose, nonsticky and nonplastic; 10 percent gravel; neutral.

Typical Pedon Location

Map unit in which located: Bong-Phoebe, dry, complex, 8 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 0.2 mile north of the junction of Dover Road and Sunset Highway and 50 feet west in cultivated field; about 1,150 feet north and 50 feet west of the southeast corner of section 20, T. 25 N., R. 41 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—8 to 16 inches
Thickness of volcanic ash influence—10 to 16 inches
Depth to loamy sand or sand—15 to 30 inches
Rock fragment content in particle-size control section—averages 5 to 30 percent
Sand content in particle-size control section—more than 70 percent
Hue—10YR, 7.5YR, 2.5Y

Ap or A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—5 to 10 percent
Gravel content—0 to 15 percent
Reaction—slightly acid, neutral

Bw horizon
Value—4 to 6 dry, 2 to 4 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, coarse sandy loam
Clay content—5 to 10 percent
Gravel content—0 to 15 percent
Reaction—slightly acid to slightly alkaline

BC horizon (where present)
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loamy coarse sand, coarse sandy loam
Clay content—2 to 8 percent
Gravel content—5 to 30 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 30 percent
Reaction—slightly acid to slightly alkaline

C horizon
Texture—coarse sand
Clay content—0 to 5 percent
Gravel content—5 to 35 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 40 percent
Reaction—slightly acid to slightly alkaline

Bonner Taxadjunct

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash terraces
Parent material: Thick mantle of volcanic ash mixed with loess over outwash
Slope range: 0 to 15 percent
Elevation: 1,900 to 2,400 feet
Average annual precipitation: 22 to 26 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Ashy over sandy or sandy-skeletal, glassy over isotic, frigid Typic Vitrixerands

Taxadjunct Features

The Bonner soils in this survey area are a taxadjunct to the series because they do not meet the criteria for the aniso classification. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, leaves, and twigs.
Oe—1 to 3 inches; moderately decomposed needles, leaves, and twigs.
A—3 to 5 inches; grayish brown (10YR 5/2) ashy fine sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; many very fine and fine, common medium, and few coarse roots; common very fine and fine and few medium irregular and tubular pores; 5 percent gravel; neutral; clear smooth boundary.
Bw1—5 to 9 inches; yellowish brown (10YR 5/4) ashy fine sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine and fine roots; common very fine and fine and few medium irregular and tubular pores; 10 percent gravel; neutral; clear smooth boundary.
Bw2—9 to 19 inches; yellowish brown (10YR 5/4) ashy fine sandy loam, dark yellowish brown (10YR 3/4) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; common fine roots; common fine and medium tubular and irregular pores; 10 percent gravel; slightly acid; clear smooth boundary.
2BC—19 to 27 inches; light yellowish brown (10YR 6/4) very gravelly loamy sand, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; few very fine, fine, and medium roots; common fine interstitial pores; 40 percent gravel and 5 percent cobbles; slightly acid; abrupt smooth boundary.
2C—27 to 60 inches; variegated extremely gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few medium roots; many very fine and fine interstitial pores; 60 percent gravel, 5 percent cobbles, and 2 percent stones; slightly acid.

Typical Pedon Location

Map unit in which located: Bonner ashy fine sandy loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 1 mile east of Pocahontas Bay on Eloika Lake, Washington; about 1,750 feet south and 1,850 feet west of the northeast corner of section 10, T. 29 N., R. 43 E.

Range in Characteristics

Profile
Thickness of ochric epipedon—2 to 8 inches
Thickness of volcanic ash mantle—15 to 25 inches
Depth to sandy-skeletal horizon—15 to 29 inches from mineral soil surface
Reaction—slightly acid or neutral throughout

A horizon
Value—4 or 5 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Clay content—4 to 8 percent
Gravel content—5 to 10 percent

Bw1 horizon
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—4 to 8 percent
Gravel content—5 to 15 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 15 percent

Bw2 horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Texture—ashy fine sandy loam, ashy sandy loam, ashy coarse sandy loam
Clay content—4 to 8 percent
Gravel content—5 to 25 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 30 percent

2BC horizon
Value—4 to 6 dry or moist
Clay content—0 to 5 percent
Gravel content—25 to 45 percent
Cobble content—0 to 5 percent
Total rock fragment content—25 to 50 percent

2C horizon
Hue—10YR, 2.5Y
Value—4 or 5 moist, variegated
Chroma—3 or 4 dry or moist, variegated
Texture—coarse sand, loamy coarse sand
Clay content—0 to 3 percent
Gravel content—35 to 80 percent
Cobble content—5 to 15 percent
Stone content—0 to 5 percent
Total rock fragment content—40 to 85 percent

Bouldercreek Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes and footslopes of mountains
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from gneiss and schist

Slope range: 3 to 70 percent
Elevation: 1,970 to 5,000 feet
Average annual precipitation: 30 to 42 inches
Average annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 120 days

Taxonomic class: Ashy over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 2 inches; slightly decomposed needles, leaves, cones, and twigs.
Oe—2 to 3 inches; decomposed organic matter mixed with 1980's Mount St. Helens volcanic ash.
A—3 to 9 inches; brown (7.5YR 5/4) ashy silt loam, dark brown (7.5YR 3/3) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and common fine and medium roots; many very fine and fine irregular and tubular pores; 10 percent gravel; slightly acid; clear wavy boundary.
Bw1—9 to 19 inches; light brown (7.5YR 6/4) ashy silt loam, brown (7.5YR 4/4) moist; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine irregular and tubular pores; 5 percent gravel; slightly acid; clear wavy boundary.
Bw2—19 to 25 inches; light brown (7.5YR 6/4) ashy silt loam, brown (7.5YR 4/4) moist; weak coarse subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine irregular and tubular pores; 5 percent gravel; slightly acid; abrupt wavy boundary.
2Bw3—25 to 33 inches; light yellowish brown (10YR 6/4) very gravelly sandy loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few faint discontinuous clay films on faces of peds; common very fine and fine and few medium roots; common very fine irregular pores and few fine tubular pores; 40 percent gravel and 10 percent cobbles; moderately acid; clear wavy boundary.
2BC—33 to 50 inches; light yellowish brown (10YR 6/4) extremely cobbly sandy loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few faint discontinuous clay films between sand grains; few very fine, fine, and medium roots; many very fine irregular pores; 15 percent very fine mica flakes; 25 percent gravel, 30 percent cobbles, and 10 percent stones; moderately acid; gradual wavy boundary.
2C—50 to 63 inches; light yellowish brown (10YR 6/4) extremely stony sandy loam, dark yellowish brown (10YR 4/4) moist; massive; slightly hard, friable, nonsticky and nonplastic; few very fine and fine roots; many very fine and fine irregular pores; less than 10 percent very fine mica flakes; 25 percent gravel, 20 percent cobbles, and 30 percent stones; moderately acid.

Typical Pedon Location

Map unit in which located: Bouldercreek ashy silt loam, 30 to 60 percent slopes
Location in survey area: Spokane County, Washington, about 1.5 miles northeast of Mica Peak, in Liberty Lake Regional Park; about 1,690 feet south and 3,430 feet east of the northwest corner of section 12, T. 24 N., R. 45 E.

Range in Characteristics

Profile
Depth to bedrock—more than 60 inches
Thickness of volcanic ash mantle—14 to 24 inches

A horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Clay content—3 to 8 percent
Gravel content—0 to 10 percent
Reaction—moderately acid to neutral

Bw horizon
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Clay content—3 to 8 percent
Gravel content—5 to 25 percent
Cobble content—0 to 5 percent in the lower part
Reaction—moderately acid to neutral

2Bw horizon
Hue—10YR, 7.5YR
Value—6 or 7 dry, 3 to 5 moist
Chroma—3 to 6 dry or moist
Texture—loam, sandy loam, coarse sandy loam
Clay content—10 to 14 percent
Gravel content—30 to 45 percent
Cobble content—5 to 20 percent
Stone content—0 to 5 percent
Total rock fragment content—35 to 60 percent
Reaction—strongly acid to slightly acid

2C horizon
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, loamy sand, coarse sandy loam
Clay content—3 to 8 percent
Gravel content—20 to 40 percent
Cobble content—10 to 40 percent
Stone content—10 to 40 percent
Total rock fragment content—70 to 85 percent
Reaction—strongly acid to slightly acid

Boulderjud Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes and footslopes of mountains and hills
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from quartz-monzonite, gneiss, and other granitic rock
Slope range: 15 to 60 percent
Elevation: 2,200 to 4,800 feet
Average annual precipitation: 25 to 42 inches

Average annual air temperature: 42 to 46 degrees F
Frost-free period: 80 to 120 days

Taxonomic class: Ashy over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands (fig. 21)

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 1 inch; slightly decomposed needles and twigs.
Oe—1 to 2 inches; moderately decomposed organic matter.
A—2 to 6 inches; dark brown (7.5YR 3/4) ashy silt loam, brown (7.5YR 5/4) dry; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine irregular and tubular pores; 5 percent fine gravel; neutral; clear wavy boundary.
Bw—6 to 16 inches; dark yellowish brown (10YR 4/6) ashy silt loam, brownish yellow (10YR 6/6) dry; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; common very fine and fine irregular and tubular pores; 10 percent fine gravel; neutral; abrupt wavy boundary.
2Bt—16 to 26 inches; brown (10YR 4/3) very gravelly sandy loam, pale brown (10YR 6/3) dry; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; 5 percent distinct clay bridging sand grains; 35 percent fine and 10 percent medium gravel; neutral; clear wavy boundary.

Figure 21.—Typical profile of a Boulderjud soil. Numerals on tape indicate feet.

2BC—26 to 36 inches; yellowish brown (10YR 5/6) very gravelly sandy loam, very pale brown (10YR 7/4) dry; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; many fine interstitial pores; 35 percent gravel and 10 percent cobbles; 10 percent fine mica flakes; neutral; gradual wavy boundary.
2C—36 to 56 inches; light olive brown (2.5Y 5/3) very gravelly loamy sand, pale yellow (2.5Y 8/3) dry; massive; slightly hard, friable, nonsticky and nonplastic; few very fine roots; many very fine interstitial pores; 30 percent gravel and 20 percent cobbles; 10 percent fine and medium mica flakes; neutral; clear irregular boundary.
2Cr—56 inches; weakly cemented, highly weathered granitic rock.

Typical Pedon Location

Map unit in which located: Boulderjud ashy silt loam, 30 to 60 percent slopes
Location in survey area: Spokane County, Washington, about 4 miles east of Elk, Washington; about 2,600 feet east and 650 feet south of the northwest corner of section 17, T. 29 N., R. 45 E.

Range in Characteristics

Profile
Depth to bedrock—40 to 60 inches (paralithic)
Depth to bedrock—more than 60 to 80 inches (lithic)
Thickness of volcanic ash mantle—14 to 25 inches

A horizon
Hue—10YR, 7.5YR
Value—2 to 4 moist, 3 to 5 dry
Chroma—2 to 4 moist or dry
Fine gravel content—0 to 5 percent
Reaction—slightly acid, neutral

Bw horizon
Hue—10YR, 7.5YR
Value—3 or 4 moist, 4 to 6 dry
Chroma—4 to 6 moist or dry
Clay content—2 to 6 percent
Fine gravel content—0 to 10 percent
Reaction—slightly acid, neutral

2Bt or 2Bw horizon
Hue—10YR, 7.5YR
Value—3 to 5 moist, 4 to 7 dry
Chroma—3 to 6 dry or moist
Texture—sandy loam, loam
Clay content—4 to 8 percent
Gravel content—15 to 45 percent
Cobble content—0 to 20 percent
Total rock fragment content—40 to 60 percent
Description of lamellae—few thin faint discontinuous in some pedons
Reaction—strongly acid to neutral

2C horizon (where present)
Hue—10YR, 2.5Y
Value—4 to 6 moist, 6 to 8 dry
Chroma—3 or 4 dry or moist
Texture—loamy sand, loamy coarse sand
Clay content—2 to 5 percent
Gravel content—25 to 55 percent

Cobble content—0 to 20 percent
Total rock fragment content—40 to 60 percent
Reaction—strongly acid to neutral

Brevco Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes, summits, and shoulders of mountains and hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite or gneiss
Slope range: 3 to 60 percent
Elevation: 2,000 to 5,000 feet
Average annual precipitation: 20 to 35 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material.
A—1 to 4 inches; grayish brown (10YR 5/2) gravelly ashy sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium granular structure; soft, friable, nonsticky and slightly plastic; common very fine and fine roots; many fine tubular pores and many very fine irregular pores; 20 percent gravel; slightly acid; clear smooth boundary.
AB—4 to 8 inches; brown (10YR 5/3) gravelly ashy sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine and fine roots; many fine tubular and irregular pores; 30 percent gravel; slightly acid; clear wavy boundary.
Bw—8 to 14 inches; pale brown (10YR 6/3) very gravelly ashy coarse sandy loam, brown (10YR 4/3) moist; weak fine and medium subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine and fine roots; common fine tubular and very fine irregular pores; 35 percent gravel; moderately acid; gradual wavy boundary.
BC—14 to 21 inches; pale brown (10YR 6/3) very gravelly coarse sandy loam, yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine irregular pores; 45 percent gravel and 5 percent cobbles; moderately acid; 5 percent fine mica flakes; gradual wavy boundary.
C—21 to 37 inches; pale yellow (2.5Y 7/3) extremely gravelly coarse sandy loam, light olive brown (2.5Y 5/4) moist; massive; slightly hard, friable, nonsticky and nonplastic; many very fine and fine roots; many very fine and fine irregular pores; 55 percent gravel and 10 percent cobbles; neutral; 10 percent fine mica flakes; abrupt irregular boundary.
R—37 inches; unweathered gneiss; fractured at 4- to 18-inch intervals with pockets of Cr material between cracks.

Typical Pedon Location

Map unit in which located: Brevco gravelly ashy sandy loam, 15 to 30 percent slopes
Location in survey area: Spokane County, Washington, about 4 miles southwest of Mount Spokane, Washington; about 575 feet west and 1,155 feet north of the southeast corner of section 2, T. 27 N., R. 44 E.

Range in Characteristics

Profile
Depth to bedrock—20 to 40 inches (lithic)
Thickness of volcanic ash influence—10 to 14 inches

A and AB horizons
Value—5 or 6 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—3 to 6 percent
Gravel content—15 to 30 percent
Reaction—slightly acid, neutral

Bw horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Texture—ashy coarse sandy loam, ashy sandy loam
Clay content—3 to 6 percent
Gravel content—35 to 45 percent
Cobble content—0 to 10 percent
Total rock fragment content—35 to 55 percent
Reaction—moderately acid, slightly acid

BC horizon
Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—2 to 4 dry or moist
Texture—coarse sandy loam, sandy loam
Clay content—2 to 6 percent
Gravel content—35 to 50 percent
Cobble content—0 to 10 percent
Total rock fragment content—35 to 60 percent
Reaction—moderately acid to neutral

C horizon
Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—2 to 4 dry or moist
Texture—loamy coarse sand, coarse sandy loam
Gravel content—30 to 60 percent
Cobble content—5 to 25 percent
Total rock fragment content—35 to 75 percent
Reaction—moderately acid to neutral

Brickel Taxadjunct

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Summits and shoulders of convex mountains and ridges
Parent material: Thick mantle of volcanic ash over gneiss or granite
Slope range: 15 to 30 percent
Elevation: 4,800 to 5,890 feet
Average annual precipitation: 40 to 50 inches
Average annual air temperature: 38 to 44 degrees F
Frost-free period: 30 to 60 days

Taxonomic class: Ashy-skeletal, amorphic Humic Vitricryands

Taxadjunct Features

The Brickel soils in this survey area have andic properties and an umbric epipedon. These differences, however, do not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 1 inch; slightly decomposed grasses and leaves.
A1—1 to 3 inches; black (10YR 2/1) gravelly ashy silt loam, dark grayish brown (10YR 4/2) dry; moderate fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine tubular and irregular pores; 20 percent gravel; moderately acid; gradual wavy boundary.
A2—3 to 9 inches; very dark brown (10YR 2/2) gravelly ashy silt loam, dark grayish brown (10YR 4/2) dry; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine roots; many very fine and fine tubular and irregular pores; 30 percent gravel; moderately acid; gradual wavy boundary.
Bw1—9 to 19 inches; very dark grayish brown (10YR 3/2) very gravelly ashy silt loam, grayish brown (10YR 5/2) dry; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine roots; many very fine and fine irregular and tubular pores; 35 percent gravel; moderately acid; gradual wavy boundary.
Bw2—19 to 27 inches; dark brown (10YR 3/3) very gravelly ashy silt loam, brown (10YR 5/3) dry; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; few very fine and fine roots; many very fine and fine tubular and irregular pores; 40 percent gravel and 5 percent cobbles; moderately acid; gradual wavy boundary.
Bw3—27 to 31 inches; dark yellowish brown (10YR 3/4) very cobbly ashy very fine sandy loam, yellowish brown (10YR 5/4) dry; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; few very fine roots; many very fine and fine tubular and irregular pores; 30 percent gravel and 25 percent cobbles; moderately acid; gradual wavy boundary.
2R—31 inches; weakly weathered gneiss; cannot be dug with spade.

Typical Pedon Location

Map unit in which located: Brickel gravelly ashy silt loam, 15 to 30 percent slopes
Location in survey area: Spokane County, Washington, at the summit of Ragged Ridge, Washington; about 2,015 feet west and 2,230 feet south of the northeast corner of section 1, T. 27 N., R. 45 E.

Range in Characteristics

Profile
Depth to bedrock—20 to 40 inches (lithic)
Thickness of umbric epipedon—15 to 30 inches
Thickness of volcanic ash mantle—20 to 35 inches
Reaction—moderately acid, slightly acid

A horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—3 to 8 percent
Gravel content—15 to 30 percent

Bw1 and Bw2 horizons
Value—4 or 5 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Clay content—3 to 8 percent
Gravel content—35 to 60 percent
Cobble content—0 to 5 percent
Total rock fragment content—35 to 60 percent

Bw3 horizon
Value—4 or 5 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy very fine sandy loam, very fine sandy loam
Clay content—4 to 10 percent
Gravel content—20 to 40 percent
Cobble content—20 to 40 percent
Total rock fragment content—40 to 60 percent

A C horizon is in some pedons.

Bridgeson Series

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Drainageways
Parent material: Alluvium derived from glaciolacustrine sediment with an influence of volcanic ash in the upper part
Slope range: 0 to 3 percent
Elevation: 1,900 to 2,240 feet
Average annual precipitation: 20 to 30 inches
Average annual air temperature: 43 to 46 degrees F
Frost-free period: 80 to 110 days

Taxonomic class: Fine-loamy, mixed, superactive, frigid Aquandic Endoaquolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 12 inches; gray (10YR 5/1) ashy silt loam, very dark gray (10YR 3/1) moist; weak fine and medium granular structure; slightly hard, friable, slightly sticky and slightly plastic; many fine roots; neutral; clear smooth boundary.
Bg1—12 to 20 inches; gray (10YR 6/1) silt loam, dark gray (10YR 4/1) moist; moderate medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; common fine roots; common very fine and fine pores; few fine distinct redoximorphic concentrations that are brown (7.5YR 4/4) moist; neutral; clear wavy boundary.
Bg2—20 to 31 inches; gray (10YR 6/1) clay loam, dark gray (10YR 4/1) moist; moderate fine and medium subangular blocky structure; hard, very firm, moderately sticky and moderately plastic; common fine roots; many very fine and few fine pores; few faint clay films in pores; common medium distinct redoximorphic concentrations that are brown (7.5YR 4/4) moist; neutral; abrupt smooth boundary.
Bg3—31 to 40 inches; gray (10YR 6/1) clay loam, dark gray (10YR 4/1) moist; moderate fine and medium subangular blocky structure; hard, very firm, moderately sticky and moderately plastic; common fine roots; many very fine and few fine pores; common medium distinct redoximorphic concentrations that are brown (7.5YR 4/4) moist; neutral; clear smooth boundary.

Bg4—40 to 60 inches; gray (10YR 6/1) clay loam, dark gray (10YR 4/1) moist; strong medium angular blocky structure; very hard, very firm, moderately sticky and moderately plastic; few roots; common very fine pores; common medium prominent redoximorphic depletions that are bluish gray (5B 5/1) moist; few black stains on peds; neutral.

Typical Pedon Location

Map unit in which located: Bridgeson ashy silt loam, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 3 miles northwest of Deer Park, Washington; about 2,300 feet north and 200 feet west of the southeast corner of section 21, T. 29 N., R. 42 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—7 to 20 inches
Depth to apparent water table—10 to 20 inches in February through May, more than 20 inches in June through January
Depth to redoximorphic features with chroma of 2 or less—10 to 20 inches
Reaction—neutral, slightly alkaline throughout

Ap horizon
Hue—10YR, 2.5Y
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 or 2 dry or moist
Clay content—18 to 27 percent

Bg1 and Bg2 horizons
Hue—10YR, 2.5Y, 10Y, 5GY
Value—6 or 7 dry, 4 or 5 moist
Chroma—1 or 2 dry or moist
Texture—clay loam, silt loam, loam
Clay content—18 to 27 percent
Gravel content—0 to 5 percent

Bg3 and Bg4 horizons
Hue—10YR, 2.5Y, 10Y, 5GY
Value—6 or 7 dry, 4 or 5 moist
Chroma—1 or 2 dry or moist
Texture—clay loam, loam, silty clay loam, silt loam
Clay content—18 to 30 percent
Gravel content—0 to 5 percent

Cg horizon (where present)
Chroma—1 to 3 dry or moist
Texture—stratified loamy sand, loamy fine sand, sandy loam, loam, or silty clay loam

Brincken Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Outwash terraces adjacent to loess hills
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits over older loess
Slope range: 0 to 25 percent
Elevation: 1,800 to 2,600 feet

Average annual precipitation: 15 to 25 inches
Average annual air temperature: 45 to 52 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Loamy-skeletal, mixed, superactive, mesic Vitrandic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 7 inches; grayish brown (10YR 5/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, very friable, moderately sticky and slightly plastic; many very fine and few fine roots throughout; few fine and common very fine irregular pores; 1 percent fine gravel; slightly alkaline; abrupt smooth boundary.

A—7 to 13 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; moderate coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and few fine roots; few fine and common very fine irregular pores; 2 percent fine gravel; slightly alkaline; abrupt smooth boundary.

AB—13 to 19 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine roots throughout; few fine and common very fine tubular pores; 2 percent fine gravel; slightly alkaline; abrupt smooth boundary.

Bw—19 to 29 inches; pale brown (10YR 6/3) ashy silt loam, dark brown (10YR 3/3) moist; weak medium and coarse subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; common very fine roots throughout; few to many fine and very fine dendritic tubular pores and common very fine irregular pores; 5 percent fine gravel; slightly alkaline; gradual smooth boundary.

Bt1—29 to 41 inches; pale brown (10YR 6/3) extremely gravelly loam, dark yellowish brown (10YR 3/4) moist; weak medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; few very fine roots throughout; many fine and medium interstitial pores; 80 percent distinct clay films on rock fragments and 10 percent distinct clay films on surfaces of root channels; 45 percent gravel and 15 percent cobbles; neutral; clear wavy boundary.

Bt2—41 to 57 inches; very pale brown (10YR 7/3) very gravelly sandy clay loam, yellowish brown (10YR 5/4) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots throughout; many very fine and medium interstitial pores; 60 percent distinct clay bridges between sand grains, 20 percent faint clay films on surfaces of root channels, and 15 percent distinct clay bodies that are yellowish brown (10YR 5/4) moist and around rock fragments; 45 percent gravel and 10 percent cobbles; neutral; gradual wavy boundary.

2Btb—57 to 60 inches; light yellowish brown (10YR 6/4) silty clay loam, dark yellowish brown (10YR 3/6) moist; moderate coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots throughout; few very fine and common fine and medium dendritic tubular pores; 23 percent clay films lining pores and root channels and 12 percent clay films on faces of peds; 5 percent fine gravel; neutral.

Typical Pedon Location

Map unit in which located: Brincken ashy silt loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 5 miles southeast of Reardan, Washington; about 1,790 feet east and 1,420 feet south of the northwest corner of section 21, T. 25 N., R. 40 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—19 to 30 inches
Depth to older loess—40 to 60 inches
Rock fragment content in particle-size control section—averages 35 to 70 percent

Ap horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—10 to 20 percent
Gravel content—0 to 5 percent
Reaction—slightly acid to slightly alkaline

A and AB horizons
Value—3 to 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Texture—ashy silt loam, ashy very fine sandy loam, ashy loam
Clay content—10 to 20 percent
Gravel content—0 to 5 percent
Reaction—slightly acid to slightly alkaline

Bw horizon (where present)
Value—3 to 6 dry, 3 or 4 moist
Chroma—3 to 5 dry, 2 to 4 moist
Texture—ashy silt loam, ashy sandy loam, loam
Clay content—5 to 20 percent
Gravel content—0 to 30 percent
Reaction—slightly acid to slightly alkaline

Bt1 and Bt2 horizons
Hue—10YR, variegated in some pedons
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 to 6 dry or moist
Texture—silt loam, loam, or clay loam in upper part; silty clay loam, sandy loam, or sandy clay loam in lower part
Clay content—15 to 30 percent
Gravel content—35 to 70 percent
Cobble content—0 to 15 percent
Total rock fragment content—35 to 80 percent
Reaction—neutral to moderately alkaline

C horizon (above 2Btb horizon in some pedons)
Texture—sand, loamy sand

2Btb horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—4 to 6 dry or moist
Texture—silt loam, silty clay loam, silty clay
Clay content—18 to 45 percent
Gravel content—0 to 5 percent
Reaction—neutral to moderately alkaline

A 2Btkb or 2Bkqb horizon is in some pedons.

Broadax Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits, backslopes, and footslopes of loess hills
Parent material: Loess
Slope range: 0 to 30 percent
Elevation: 2,200 to 2,780 feet
Average annual precipitation: 15 to 20 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Calcic Argixerolls (fig. 22)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 7 inches; dark grayish brown (10YR 4/2) silt loam, very dark grayish brown (10YR 3/2) moist; weak medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine roots; common very fine irregular pores and few coarse tubular pores; noneffervescent; moderately acid; abrupt smooth boundary.

A—7 to 15 inches; dark yellowish brown (10YR 4/4) silt loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure parting to moderate fine granular; soft, very friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine irregular pores and few coarse tubular pores; noneffervescent; neutral; abrupt wavy boundary.

Bt—15 to 28 inches; yellowish brown (10YR 5/4) silt loam, dark yellowish brown (10YR 3/4) moist; moderate fine prismatic structure parting to moderate medium subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; common very fine irregular pores; few distinct clay films on faces of peds; noneffervescent; strongly alkaline; abrupt wavy boundary.

Btk—28 to 33 inches; light gray (10YR 7/2) silt loam, brown (10YR 4/3) moist; moderate fine prismatic structure parting to moderate medium subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; common very fine irregular pores; few distinct clay films on faces of peds; few fine carbonate masses that are white (10YR 8/1) moist and along pores; violently effervescent; strongly alkaline; clear wavy boundary.

Bk—33 to 60 inches; light gray (10YR 7/2) silt loam, brown (10YR 5/3) moist; weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; few very fine roots; common very fine irregular pores; common fine carbonate masses that are white (10YR 8/1) moist and along pores; violently effervescent; strongly alkaline.

Typical Pedon Location

Map unit in which located: Broadax silt loam, 8 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 8 miles west of Latah, Washington; about 2,640 feet south and 590 feet west of the northeast corner of section 26, T. 21 N., R. 43 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 20 inches
Depth to argillic horizon—10 to 20 inches

Figure 22.—Typical profile of a Broadax soil. Numerals on tape indicate centimeters.

Depth to secondary carbonates—25 to 44 inches
Clay content in particle-size control section—18 to 35 percent
Depth to durinodes—below 40 inches in some pedons

Ap and A horizons
Hue—2.5Y, 10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 dry, 2 or 3 moist
Clay content—15 to 25 percent
Reaction—moderately acid to slightly alkaline

Bt horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, silty clay loam

Clay content—18 to 35 percent
Reaction—neutral to strongly alkaline

Btk horizon
Value—5 to 7 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—18 to 35 percent
Reaction—slightly alkaline to strongly alkaline

Bk horizon
Value—5 to 7 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Clay content—12 to 24 percent
Gravel content—0 to 10 percent
Reaction—slightly alkaline to strongly alkaline

Brodeer Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits and footslopes of hills
Parent material: Thick mantle of volcanic ash over residuum derived from quartz-monzonite and other granitic rock
Slope range: 3 to 15 percent
Elevation: 2,300 to 4,000 feet
Average annual precipitation: 30 to 40 inches
Average annual air temperature: 41 to 44 degrees F
Frost-free period: 60 to 90 days

Taxonomic class: Ashy over loamy, amorphic over mixed, superactive, frigid Alfic Udivitrands

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 1 inch; slightly decomposed plant material.
Oe—1 to 2 inches; moderately decomposed plant material.
A—2 to 4 inches; very dark brown (7.5YR 2.5/2) ashy silt loam, dark brown (7.5YR 3/2) dry; weak fine granular structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine roots; many fine tubular pores and many very fine irregular pores; neutral; clear smooth boundary.
Bw1—4 to 8 inches; dark brown (7.5YR 3/3) ashy silt loam, brown (7.5YR 4/3) dry; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine, fine, and medium and few coarse roots; many fine irregular pores and common very fine tubular pores; neutral; clear wavy boundary.
Bw2—8 to 18 inches; dark brown (7.5YR 3/4) ashy silt loam, brown (7.5YR 5/4) dry; weak medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine, fine, and medium and few coarse roots; many fine irregular pores and common very fine and fine tubular pores; slightly acid; clear wavy boundary.
Bw3—18 to 26 inches; dark yellowish brown (10YR 4/4) ashy silt loam, light yellowish brown (10YR 6/4) dry; weak medium and coarse subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine, fine, and medium roots; many fine irregular pores and common very fine and fine tubular pores; 10 percent continuous faint clay films along pores and 20 percent

discontinuous faint clay films on faces of peds; 5 percent fine gravel: moderately acid; abrupt wavy boundary.

2Bt1—26 to 32 inches; brown (10YR 4/3) fine gravelly sandy loam, pale brown (10YR 6/3) dry; moderate medium subangular blocky structure; hard, firm, slightly sticky and moderately plastic; few very fine and fine roots; few fine and common very fine tubular pores; 10 percent distinct clay films along pores and 20 percent faint clay films on faces of peds; 15 percent subangular fine gravel; strongly acid; clear wavy boundary.

2Bt2—32 to 47 inches; yellowish brown (10YR 5/4) fine gravelly loam, very pale brown (10YR 7/3) dry; moderate fine and medium subangular blocky structure; hard, firm, slightly sticky and moderately plastic; few very fine and fine roots; few very fine and fine tubular pores; 10 percent faint clay films on faces of peds; 15 percent fine gravel; strongly acid; 2 percent fine mica flakes; gradual wavy boundary.

2BC—47 to 61 inches; brown (10YR 5/3) fine gravelly sandy loam, very pale brown (10YR 7/3) dry; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; common very fine and fine tubular pores; 5 percent faint clay films on faces of peds; 25 percent fine gravel; strongly acid; 2 percent fine mica flakes.

Typical Pedon Location

Map unit in which located: Brodeer ashy silt loam, 3 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 8.5 miles north of Moab Junction; about 2,375 feet south and 700 feet east of the northwest corner of section 1, T. 27 N., R. 45 E.

Range in Characteristics

Profile

Depth to bedrock—more than 60 inches (paralithic)
Thickness of volcanic ash mantle—14 to 24 inches

A horizon

Hue—10YR, 7.5YR
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 to 4 dry or moist
Clay content—4 to 8 percent
Reaction—slightly acid, neutral

Bw horizon

Hue—10YR, 7.5YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 to 6 dry or moist
Clay content—4 to 8 percent
Fine gravel content—0 to 5 percent
Reaction—moderately acid to neutral

2Bt horizon

Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam
Clay content—18 to 24 percent
Gravel content—5 to 30 percent
Reaction—strongly acid to neutral

2BC horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam
Clay content—12 to 18 percent
Gravel content—5 to 30 gravel
Reaction—strongly acid to slightly acid

Cald Series

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Drainageways and treads of flood plains
Parent material: Alluvium derived from loess
Slope range: 0 to 2 percent
Elevation: 2,300 to 2,650 feet
Average annual precipitation: 18 to 23 inches
Average annual air temperature: 47 to 49 degrees F
Frost-free period: 100 to 135 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Typic Argiaquolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 7 inches; dark grayish brown (10YR 4/2) silt loam, black (10YR 2/1) moist; weak fine subangular blocky structure parting to moderate very fine granular; slightly hard, very friable, slightly sticky and slightly plastic; common very fine and fine roots; many very fine and fine and few medium tubular pores; slightly acid; clear smooth boundary.

Ap2—7 to 13 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure parting to moderate fine granular; slightly hard, very friable, slightly sticky and slightly plastic; common very fine and fine roots; many very fine and fine and few medium tubular pores; few fine distinct masses of iron accumulation that are brown (7.5YR 4/4) dry and few distinct zones of iron depletion that are gray (10YR 5/1) dry; slightly acid; clear wavy boundary.

Ab—13 to 17 inches; dark grayish brown (10YR 4/2) silt loam, black (10YR 2/1) moist; weak thick platy structure parting to moderate fine angular blocky; moderately hard, friable, slightly sticky and slightly plastic; few very fine roots; many very fine and fine and few medium tubular pores; few distinct silt coatings that are white (10YR 8/1) dry and on ped surfaces and lining pores; few fine distinct masses of iron accumulation that are brown (7.5YR 4/4) dry; slightly acid; gradual irregular boundary.

Ab/Bgb—17 to 25 inches; 70 percent Ab material that is dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist, and 30 percent Bgb material that is grayish brown (10YR 5/2), stratified silt loam to very fine sandy loam, very dark grayish brown (10YR 3/2) moist; weak thin platy structure parting to weak very fine angular blocky; moderately hard, friable, slightly sticky and slightly plastic; few very fine roots; many very fine and fine and few medium tubular pores; common fine distinct masses of iron accumulation that are brown (7.5YR 4/4) dry and few distinct zones of iron depletion that are gray (10YR 5/1) dry; slightly acid; clear smooth boundary.

Bgb1—25 to 40 inches; gray (10YR 6/1) silt loam, very dark gray (10YR 3/1) moist; weak coarse subangular blocky structure parting to weak fine angular blocky;

moderately hard, friable, slightly sticky and slightly plastic; few very fine roots; many very fine and fine and few medium tubular pores; common distinct masses of iron accumulation that are strong brown (7.5YR 4/6) dry and few prominent iron-manganese masses; neutral; clear wavy boundary.

Bgb2—40 to 48 inches; gray (10YR 6/1) silt loam, very dark gray (10YR 3/1) moist; weak medium platy structure parting to moderate very fine angular blocky; moderately hard, friable, slightly sticky and slightly plastic; few fine roots; many very fine and fine and few medium tubular and irregular pores; reduced matrix; neutral; clear wavy boundary.

Btgb—48 to 60 inches; gray (10YR 5/1) silty clay loam, very dark gray (10YR 3/1) moist; moderate medium and coarse angular blocky structure; hard, firm, very sticky and very plastic; few very fine roots; common very fine and fine and few medium tubular and irregular pores; few distinct silt coatings that are white (10YR 8/1) dry and on surfaces of peds and lining pores; few prominent organoargillans that are black (10YR 2/1) dry and on faces of peds; common distinct zones of iron depletion and common distinct masses of iron accumulation that are brown (7.5YR 4/4) dry; slightly alkaline.

Typical Pedon Location

Map unit in which located: Thatuna-Cald complex, 0 to 8 percent slopes

Location in survey area: Benewah County, Idaho, about 6 miles northwest of Plummer, Idaho; about 850 feet south and 1,520 feet east of the northwest corner of section 6, T. 46 N., R. 5 W.

Range in Characteristics

Profile

Thickness of mollic epipedon—24 to 38 inches

Depth to apparent water table—11 to 13 inches in February through April, more than 13 inches in May through January

Depth to redoximorphic features—7 to 19 inches

Depth to argillic horizon—40 to 60 inches

Ap horizon, and Ab and Ab/Bgb horizons (where present)

Value—3 to 5 dry, 2 or 3 moist

Chroma—1 or 2 moist or dry

Clay content—15 to 25 percent in Ap and Ab horizons, 6 to 27 percent in Ab/Bgb horizon

Reaction—moderately acid to neutral

Bgb and Btgb horizons

Hue—10YR, 2.5Y

Value—4 to 6 dry, 3 to 5 moist

Chroma—1 to 3 moist or dry

Texture—silt loam, silty clay loam

Clay content—20 to 35 percent

Reaction—slightly acid to slightly alkaline

A Cg horizon is in some pedons.

Caldwell Series

Depth class: Very deep

Drainage class: Somewhat poorly drained

Position on landscape: Treads of drainageways and toeslopes of loess hills

Parent material: Alluvium derived from loess

Slope range: 0 to 3 percent
Elevation: 2,100 to 2,650 feet
Average annual precipitation: 17 to 23 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Cumulic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 4 inches; dark grayish brown (10YR 4/2) silt loam, very dark gray (10YR 3/1) moist; moderate medium granular structure; moderately hard, firm, slightly sticky and slightly plastic; many very fine and common fine roots; many very fine and few fine irregular pores; slightly acid; abrupt wavy boundary.

Ap2—4 to 10 inches; dark grayish brown (10YR 4/2) silt loam, very dark gray (10YR 3/1) moist; moderate coarse subangular blocky structure parting to thick platy; moderately hard, friable, slightly sticky and slightly plastic; many very fine and common fine roots; many very fine and few fine irregular pores; neutral; abrupt wavy boundary.

A1—10 to 16 inches; dark brown (10YR 3/3) silt loam, very dark gray (10YR 3/1) moist; strong very coarse prismatic structure parting to very thick platy; moderately hard, friable, slightly sticky and slightly plastic; common very fine roots; common fine irregular pores; neutral; clear wavy boundary.

A2—16 to 21 inches; very dark grayish brown (10YR 3/2) silt loam, very dark gray (10YR 3/1) moist; strong very coarse prismatic structure parting to very thick platy; moderately hard, friable, moderately sticky and slightly plastic; common very fine roots; many very fine and few fine irregular pores and few medium tubular pores; 1 percent prominent very dark gray (10YR 3/1) organic stains on faces of peds; few fine prominent iron masses that are yellowish red (5YR 5/6) moist; neutral; clear wavy boundary.

AB—21 to 30 inches; brown (10YR 5/3) silt loam, very dark grayish brown (10YR 3/2) moist; moderate very coarse prismatic structure parting to coarse subangular blocky; moderately hard, friable, moderately sticky and slightly plastic; few very fine roots; many very fine irregular pores and few medium tubular pores; few distinct clay films that are dark yellowish brown (10YR 4/4) moist and on faces of peds; few fine prominent iron masses that are yellowish red (5YR 5/6) moist; neutral; clear wavy boundary.

Bw—30 to 40 inches; pale brown (10YR 6/3) silt loam, light olive brown (2.5Y 5/3) moist; coarse subangular blocky structure; moderately hard, friable, slightly sticky and slightly plastic; few very fine roots; common very fine and few fine irregular pores and few medium tubular pores; few prominent organoargillans that are very dark gray (10YR 3/1) moist and along pores; few fine prominent hard iron-manganese nodules that are black (10YR 2/1) moist; few fine distinct iron masses that are yellowish red (5YR 5/6) moist; neutral; clear wavy boundary.

Bt1—40 to 52 inches; light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; medium angular blocky structure; moderately hard, friable, slightly sticky and moderately plastic; few very fine roots; common very fine and few fine irregular pores and few medium tubular pores; few distinct clay films that are dark yellowish brown (10YR 4/4) moist and on faces of peds and few distinct organoargillans that are very dark gray (10YR 3/1) moist and along pores; few fine prominent hard iron-manganese nodules that are black (10YR 2/1) moist; many very coarse prominent iron masses that are yellowish red (5YR 5/6) moist; neutral; clear wavy boundary.

Bt2—52 to 60 inches; light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; medium angular blocky structure; moderately hard, friable, slightly sticky and moderately plastic; few very fine roots; common very fine and few fine irregular pores and few medium tubular pores; few distinct clay films that are dark yellowish brown (10YR 4/4) moist and on faces of peds and few distinct organoargillans that are very dark gray (10YR 3/1) moist and along pores; few fine prominent hard iron-manganese nodules that are black (10YR 2/1) moist; many extremely coarse prominent iron masses that are yellowish red (5YR 5/6) moist; neutral.

Typical Pedon Location

Map unit in which located: Caldwell-Thatuna complex, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 3.5 miles south of Waverly, Washington; about 1,075 feet south and 2,034 feet west of the northeast corner of section 27, T. 21 N., R. 44 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—20 to 38 inches
Depth to apparent water table—16 to 21 inches in February through March, more than 16 inches in April through January
Depth to redoximorphic features—16 to 40 inches

A horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—1 to 3 moist or dry
Clay content—15 to 27 percent
Reaction—neutral, slightly acid

AB horizon (where present)
Value—3 to 5 dry, 2 or 3 moist
Chroma—1 to 3 moist or dry
Clay content—18 to 27 percent
Reaction—neutral, slightly acid

Bw horizon
Hue—10YR to 2.5Y
Value—4 to 6 dry, 2 to 5 moist
Chroma—1 to 3 moist or dry
Clay content—18 to 27 percent

Bt horizon
Hue—2.5Y to 10YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—1 to 4 moist or dry
Texture—silt loam, silty clay loam
Clay content—18 to 35 percent

A BCg or Cg horizon is in some pedons.

Carlinton Series

Depth class: Moderately deep to a fragipan
Drainage class: Moderately well drained
Position on landscape: Backslopes and shoulders of loess plateaus

Parent material: Volcanic ash over loess
Slope range: 3 to 25 percent
Elevation: 2,560 to 3,230 feet
Average annual precipitation: 25 to 28 inches
Average annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Fine-silty, mixed, superactive, frigid Vitrandic Fragixeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Ap1—0 to 5 inches; very dark grayish brown (10YR 3/2) ashy silt loam, brown (10YR 5/3) dry; weak fine and medium granular structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and fine and few medium roots; many very fine and fine and few medium tubular pores; strongly acid; gradual wavy boundary.

Ap2—5 to 10 inches; dark brown (10YR 3/3) ashy silt loam, pale brown (10YR 6/3) dry; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine and few medium roots; many very fine and fine and few medium tubular pores; strongly acid; clear wavy boundary.

Bw—10 to 14 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; many very fine and fine and few medium tubular pores; slightly acid; abrupt wavy boundary.

EBt—14 to 20 inches; E part is pale brown (10YR 6/3) silt loam, very pale brown (10YR 7/3) dry, and B part is brown (10YR 5/3) silt loam, pale brown (10YR 6/3) dry; weak coarse and very coarse prismatic structure; hard, firm, slightly sticky and slightly plastic; common very fine and fine roots; many very fine and fine and few medium tubular pores; few faint clay films on faces of peds and in pores and few faint very pale brown (10YR 7/3 dry) silt coatings in root channels; slightly acid; clear wavy boundary.

E—20 to 23 inches; light yellowish brown (2.5Y 6/3) and light brownish gray (2.5Y 6/2) silt loam, light gray (10YR 7/2) and white (2.5Y 8/1) dry; weak medium and coarse prismatic structure; moderately hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; many very fine and fine and few medium tubular pores; few fine iron-manganese concretions; common fine prominent iron masses that are light yellowish brown (10YR 6/4) and yellowish brown (10YR 5/4) dry; slightly acid; abrupt wavy boundary.

BtxbE—23 to 30 inches; B part is brown (10YR 4/3) and yellowish brown (10YR 5/4) silt loam, yellowish brown (10YR 5/4) and light yellowish brown (10YR 6/4) dry, and E part is pale brown (10YR 6/3) and light gray (10YR 7/2) silt loam, pale brown (10YR 6/3) and pale yellow (2.5Y 8/2) dry; moderate coarse prismatic structure; extremely hard, extremely firm and brittle, slightly sticky and slightly plastic; few very fine and fine roots between peds; many very fine and fine and few medium tubular pores; many faint continuous clay films on faces of peds and in pores and common prominent pale yellow (2.5Y 8/2 dry) silt coatings on vertical and top faces of peds; few fine iron-manganese concretions; about 50 percent fragic material that is brittle when moist; slightly acid; clear wavy boundary.

Btxb1—30 to 42 inches; mixed dark yellowish brown (10YR 4/4) and brown (10YR 5/3) silty clay loam, pale brown (10YR 6/3) and light yellowish brown (10YR 6/4) dry; moderate coarse prismatic structure; extremely hard, extremely firm and brittle, moderately sticky and moderately plastic; many very fine and fine and few medium tubular pores; common distinct and prominent clay films that are brown (7.5YR

5/4) dry and on faces of peds and in pores and common prominent silt coatings that are light gray (2.5Y 7/2) dry and on vertical faces of peds; about 75 percent fragic material that is brittle when moist; slightly acid; gradual wavy boundary.

Btxb2—42 to 53 inches; yellowish brown (10YR 5/4) silty clay loam, light yellowish brown (10YR 6/4) and pale brown (10YR 6/3) dry; weak medium and coarse prismatic structure; extremely hard, extremely firm and brittle, moderately sticky and moderately plastic; common very fine and fine tubular pores and few medium irregular pores; common faint and few distinct and prominent continuous clay films that are brown (7.5YR 5/4) dry and on faces of peds and in pores and common prominent silt coatings that are light gray (2.5Y 7/2) dry and on vertical faces of peds; few very fine iron-manganese concretions; about 35 percent fragic material; neutral; gradual wavy boundary.

Btb—53 to 60 inches; yellowish brown (10YR 5/4) silty clay loam, light yellowish brown (10YR 6/4) dry; weak medium and coarse prismatic structure; extremely hard, extremely firm, moderately sticky and moderately plastic; common very fine and fine tubular pores and few medium irregular pores; few distinct and prominent clay films that are brown (7.5YR 5/4) dry and on faces of peds and in pores and common prominent silt coatings that are light gray (2.5Y 7/2) dry and on vertical faces of peds and in root channels; neutral.

Typical Pedon Location

Map unit in which located: Carlinton, dry-Taney complex, 3 to 8 percent slopes

Location in survey area: Benewah County, Idaho, about 2 miles northeast of the town of Plummer, Idaho; about 2,300 feet south and 850 feet west of the northeast corner of section 5, T. 46 N., R. 4 W.

Range in Characteristics

Profile

Depth to fragipan—26 to 40 inches

Depth to perched water table—14 to 20 inches in February, more than 14 inches in March through April

Depth to redoximorphic features—14 to 20 inches

Thickness of volcanic ash influence—7 to 12 inches

A horizon

Hue—10YR

Value—5 or 6 dry, 2 to 4 moist

Chroma—2 to 4 dry or moist

Clay content—10 to 18 percent

Reaction—strongly acid to slightly acid

Bw horizon

Hue—10YR

Value—5 or 6 dry, 3 or 4 moist

Chroma—3 or 4 dry or moist

Texture—silt loam, ashy silt loam

Clay content—11 to 20 percent

Reaction—moderately acid, slightly acid

EBt horizon

Hue—10YR

Value—6 or 7 dry, 4 to 6 moist

Chroma—2 to 4 dry or moist

Clay content—12 to 21 percent

Total rock fragment content—0 to 3 percent gravel
Reaction—moderately acid, slightly acid

E horizon
Hue—10YR, 2.5Y
Value—6 to 8 dry, 5 or 6 moist
Chroma—1 to 4 dry or moist
Clay content—9 to 15 percent
Total rock fragment content—0 to 3 percent gravel
Reaction—strongly acid to slightly acid

BtxbE horizon
Btbx part:
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
E part:
Hue—10YR, 2.5Y
Value—6 to 8 dry, 5 to 7 moist
Chroma—2 to 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—20 to 32 percent
Total rock fragment content—0 to 5 percent gravel
Reaction—moderately acid, slightly acid

Btxb horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, silt loam
Clay content—24 to 36 percent
Total rock fragment content—0 to 5 percent gravel
Reaction—moderately acid to neutral

Btb horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, silt loam
Clay content—24 to 34 percent
Reaction—moderately acid to neutral

Cassyhill Series

Depth class: Shallow
Drainage class: Well drained
Position on landscape: Backslopes and shoulders of mountains and hills
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 5 to 65 percent
Elevation: 2,190 to 4,840 feet
Average annual precipitation: 25 to 35 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 90 to 140 days

Taxonomic class: Loamy-skeletal, isotic, mesic Lithic Ultic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 1 inch; slightly decomposed leaves, needles, and twigs mixed with 1980's Mount St. Helens volcanic ash.

A1—1 to 7 inches; very dark grayish brown (10YR 3/2) very gravelly ashy silt loam, grayish brown (10YR 5/2) dry; moderate very fine and fine subangular blocky structure parting to moderate fine granular; soft, very friable, nonsticky and nonplastic; many very fine roots; many very fine and fine tubular pores; 40 percent gravel and 10 percent channers; neutral; clear smooth boundary.

A2—7 to 11 inches; dark brown (10YR 3/3) very gravelly ashy loam, brown (10YR 5/3) dry; moderate fine and medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; many very fine and fine and few very coarse roots; many very fine and fine tubular pores; 35 percent gravel, 5 percent paragravel, 10 percent channers, 5 percent cobbles, and 5 percent flagstones; slightly acid; clear smooth boundary.

C—11 to 14 inches; dark yellowish brown (10YR 4/4) extremely channery loam, pale brown (10YR 6/3) dry; weak fine and medium subangular blocky structure; soft, very friable, slightly sticky and nonplastic; common fine and medium roots; many very fine and fine tubular pores; 25 percent gravel, 35 percent channers, 15 percent cobbles, and 10 percent flagstones; moderately acid; gradual wavy boundary.

R—14 to 17 inches; strongly cemented, highly fractured siltite; common fine and coarse roots between fractures that are approximately 4 to 8 inches apart.

Typical Pedon Location

Map unit in which located: Cassyhill very gravelly ashy silt loam, 35 to 65 percent slopes

Location in survey area: Benewah County, Idaho, about 1,000 feet south and 2,150 feet west of the northeast corner of section 9, T. 46 N., R. 2 W.

Range in Characteristics

Profile

Depth to bedrock—10 to 20 inches (lithic)
Thickness of mollic epipedon—7 to 11 inches
Thickness of volcanic ash influence—7 to 11 inches

A1 and A2 horizons

Hue—10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—5 to 15 percent
Gravel content—15 to 55 percent
Paragravel content—0 to 10 percent
Cobble content—0 to 25 percent
Channer content—5 to 20 percent
Flagstone content—0 to 10 percent
Total rock fragment content—25 to 55 percent in upper part, 30 to 60 in lower part
Reaction—moderately acid to neutral

AC horizon (where present)

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist

Texture—ashy silt loam, ashy loam
Clay content—5 to 15 percent
Gravel content—15 to 30 percent
Paragravel content—0 to 30 percent
Cobble content—15 to 50 percent
Paracobble content—0 to 30 percent
Channer content—15 to 50 percent
Parachanner content—0 to 30 percent
Flagstone content—0 to 10 percent
Total rock fragment content—45 to 80 percent
Reaction—moderately acid, slightly acid

C horizon
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam
Clay content—5 to 20 percent
Gravel content—20 to 45 percent
Paragravel content—5 to 45 percent
Cobble content—20 to 40 percent
Paracobble content—0 to 30 percent
Channer content—20 to 50 percent
Parachanner content—0 to 35 percent
Flagstone content—0 to 50 percent
Total rock fragment content—65 to 85 percent
Reaction—strongly acid to slightly acid

Cedonia Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers on relict glacial lake terraces and outwash plains
Parent material: Calcareous glaciolacustrine deposits with an influence of loess and volcanic ash in the upper part
Slope range: 0 to 25 percent
Elevation: 1,800 to 2,000 feet
Average annual precipitation: 18 to 22 inches
Average annual air temperature: 45 to 47 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 6 inches; light brownish gray (2.5Y 6/2) ashy silt loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; few roots; common very fine and fine tubular and irregular pores; neutral; abrupt smooth boundary.
AB—6 to 12 inches; light brownish gray (2.5Y 6/2) ashy silt loam, dark grayish brown (10YR 4/2) moist; weak medium subangular blocky structure; slightly hard, friable,

slightly sticky and slightly plastic; few roots; many very fine tubular and irregular pores; neutral; clear smooth boundary.

Bk1—12 to 27 inches; pale brown (10YR 6/3) silt loam, brown (10YR 4/3) moist; strong thin platy structure; slightly hard, friable, slightly sticky and slightly plastic; few roots; many very fine and fine tubular and irregular pores; few fine dark yellowish brown (10YR 3/4) coatings in thin bands; 10 percent fine carbonate threads throughout; strongly effervescent in some root channels; slightly alkaline; clear wavy boundary.

Bk2—27 to 33 inches; pale brown (10YR 6/3) silt loam, dark yellowish brown (10YR 4/4) moist; strong thin platy structure; hard, friable, slightly sticky and slightly plastic; few very fine roots; many fine irregular pores; few dark yellowish brown (10YR 3/4) coatings in thin bands; 10 percent fine carbonate threads throughout; strongly effervescent; moderately alkaline; clear smooth boundary.

C—33 to 60 inches; pale yellow (5Y 7/3) silt loam, olive (5Y 5/3) moist; finely laminated; slightly hard, friable, slightly sticky and slightly plastic; few roots along cleavage planes to a depth of about 50 inches; few fine irregular pores; strongly effervescent; strongly alkaline.

Typical Pedon Location

Map unit in which located: Cedonia ashy silt loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 0.2 mile east of the junction of Peone and Mount Spokane Roads, in a cultivated field about 30 feet north of Mount Spokane Road; in the southwest corner of section 33, T. 27 N., R. 44 E.

Range in Characteristics

Profile

Thickness of volcanic ash influence—7 to 14 inches
Depth to secondary carbonates—12 to 33 inches

A horizon

Hue—10YR, 2.5Y
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Reaction—slightly acid, neutral

Bk horizons

Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—2 to 4 dry or moist
Texture—silt loam, silt
Clay content—10 to 26 percent
Content of fine carbonate threads and faint carbonate coatings—10 to 30 percent
Reaction—slightly alkaline, moderately alkaline

C horizon

Hue—10YR, 2.5Y, 5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 or 3 dry or moist
Texture—silt loam, silty clay loam
Clay content—14 to 35 percent
Redoximorphic concentrations—none or few faint iron and manganese masses
Reaction—slightly alkaline to strongly alkaline

Cheney Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers on outwash plains of channeled scablands
Parent material: Loess mixed with a minor amount of volcanic ash over sandy and gravelly glaciofluvial deposits
Slope range: 0 to 15 percent
Elevation: 1,800 to 2,550 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Coarse-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 10 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak fine and medium granular structure; slightly hard, very friable, slightly sticky and slightly plastic; common fine roots; many very fine irregular pores; neutral; abrupt smooth boundary.

A—10 to 14 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak thick platy structure; slightly hard, very friable, slightly sticky and slightly plastic; common fine roots; many very fine irregular pores; neutral; clear wavy boundary.

Bw—14 to 22 inches; yellowish brown (10YR 5/4) ashy silt loam, dark yellowish brown (10YR 3/4) moist; weak medium prismatic structure; slightly hard, very friable, slightly sticky and slightly plastic; common fine roots; many very fine and fine irregular pores; neutral; gradual wavy boundary.

Bt—22 to 28 inches; light yellowish brown (10YR 6/4) ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak coarse prismatic structure; hard, friable, slightly sticky and slightly plastic; common fine roots; many very fine and fine irregular pores; few faint discontinuous clay films on faces of peds; neutral; clear wavy boundary.

2C1—28 to 32 inches; pale brown (10YR 6/3) very gravelly sandy loam, dark brown (10YR 4/3) moist; massive; loose, nonsticky and nonplastic; few roots; many very fine and fine interstitial pores; 40 percent gravel; few faint carbonate coatings on underside of some gravel; slightly alkaline; gradual wavy boundary.

2C2—32 to 60 inches; variegated extremely gravelly coarse sand; single grain; loose, nonsticky and nonplastic; 70 percent gravel and 10 percent cobbles, dominantly basalt fragments with few granite and quartzite fragments; few faint carbonate coatings on underside of some gravel and cobbles; moderately alkaline.

Typical Pedon Location

Map unit in which located: Cheney ashy silt loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 1 mile east and 4 miles north of the town of Deep Creek, Washington; about 2,100 feet north and 50 feet west of the southeast corner of section 36, T. 26 N., R. 40 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 17 inches
Thickness of volcanic ash influence—20 to 36 inches

Depth to sandy-skeletal material—20 to 36 inches
Rock fragment content in upper part of control section—0 to 30 percent
Rock fragment content in lower part of control section—35 to 85 percent

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—10 to 18 percent
Gravel content—0 to 20 percent
Total rock fragment content—0 to 20 percent
Reaction—slightly acid to slightly alkaline

Bw and Bt horizons
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy loam, ashy silt loam
Clay content—10 to 18 percent
Gravel content—0 to 25 percent
Cobble content—0 to 10 percent
Total rock fragment content—less than 30 percent
Reaction—neutral, slightly alkaline

A 2BC horizon is in some pedons.

2C1 horizon (where present)
Value—5 or 6 dry
Chroma—3 or 4 dry or moist
Texture—sandy loam, loamy sand
Clay content—4 to 10 percent
Gravel content—25 to 75 percent
Cobble content—0 to 25 percent
Total rock fragment content—35 to 85 percent
Reaction—slightly alkaline, moderately alkaline

2C2 horizon, and 2Bq horizon (where present)
Texture—coarse sand, loamy coarse sand, loamy sand
Gravel content—25 to 75 percent
Cobble content—0 to 35 percent
Stone content—0 to 15 percent
Boulder content—0 to 5 percent
Total rock fragment content—35 to 85 percent
Reaction—slightly alkaline, moderately alkaline

Clayton Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers on outwash terraces
Parent material: Sandy glaciofluvial deposits mixed with a minor amount of loess and volcanic ash in the upper part
Slope range: 0 to 25 percent
Elevation: 1,800 to 2,400 feet
Average annual precipitation: 17 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Coarse-loamy, isotic, mesic Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 5 inches; brown (10YR 5/3) ashy fine sandy loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; few fine and common very fine roots; few fine and common very fine tubular pores; 1 percent gravel; moderately acid; abrupt smooth boundary.

Ap2—5 to 8 inches; brown (10YR 5/3) ashy fine sandy loam, dark brown (10YR 3/3) moist; moderate coarse subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; few fine and medium and common very fine roots; common very fine tubular pores; 1 percent gravel; moderately acid; abrupt wavy boundary.

E and Bt1—8 to 29 inches; 95 percent pale brown (10YR 6/3) sandy loam, brown (10YR 4/3) moist (E part); moderate thick platy structure; slightly hard, very friable, nonsticky and nonplastic; 5 percent continuous lamellae that are brown (7.5YR 4/4) sandy loam, brown (10YR 4/3) moist (Bt part); massive; slightly hard, very friable, nonsticky and nonplastic; few fine and common very fine and medium roots; few fine and common very fine tubular pores; 1 percent gravel; slightly acid; abrupt wavy boundary.

E and Bt2—29 to 42 inches; 85 percent pale brown (10YR 6/3) sandy loam, brown (10YR 4/3) moist (E part); massive; slightly hard, very friable, nonsticky and nonplastic; 15 percent continuous lamellae that are brown (7.5YR 5/4) sandy loam, brown (10YR 4/3) moist (Bt part); moderate very thick platy structure; moderately hard, friable, nonsticky and nonplastic; 25 percent continuous faint clay bridges between sand grains; few very fine, fine, medium, and coarse roots; common very fine tubular and interstitial pores; 2 percent gravel; slightly acid; abrupt wavy boundary.

E and Bt3—42 to 52 inches; 80 percent pale brown (10YR 6/3) loamy sand, brown (10YR 4/3) moist (E part); massive; slightly hard, very friable, nonsticky and nonplastic; 20 percent continuous lamellae that are brown (7.5YR 5/4) sandy loam, brown (10YR 4/3) moist (Bt part); moderate very thick platy structure; moderately hard, friable, nonsticky and nonplastic; 15 percent continuous faint clay bridges between sand grains; few very fine, fine, and medium roots; common very fine interstitial and tubular pores; 10 percent gravel and 2 percent cobbles; neutral; abrupt wavy boundary.

C—52 to 62 inches; variegated loamy fine sand; single grain; soft, loose, nonsticky and nonplastic; few very fine and fine roots; common very fine interstitial pores; 1 percent gravel; neutral.

Typical Pedon Location

Map unit in which located: Clayton ashy fine sandy loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 7.5 miles southeast of Deer Park, Washington; about 425 feet west and 1,350 feet north of the southeast corner of section 7, T. 27 N., R. 43 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—5 to 9 inches

Thickness of volcanic ash influence—7 to 14 inches

Depth to loamy fine sand or loamy sand—at least 25 inches and commonly 30 inches or more from mineral soil surface

A horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Clay content—4 to 10 percent
Gravel content—0 to 10 percent
Reaction—moderately acid to neutral

E and Bt horizons
E part:
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—fine sandy loam or sandy loam in upper part, loamy fine sand or loamy sand in lower part
Clay content—2 to 6 percent
Gravel content—0 to 10 percent
Cobble content—0 to 5 percent
Total rock fragment content—0 to 15 percent
Reaction—moderately acid to neutral

B part:
Hue—7.5YR, 10YR
Value—4 or 5 dry
Chroma—3 or 4 moist
Texture—fine sandy loam, sandy loam
Clay content—4 to 12 percent
Combined thickness of lamellae—less than 6 inches
Reaction—moderately acid to neutral

C horizon
Hue—variegated, 10YR
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy fine sand, loamy sand, sand
Clay content—0 to 3 percent
Gravel content—0 to 15 percent
Cobble content—0 to 5 percent
Total rock fragment content—0 to 20 percent
Reaction—slightly acid, neutral

A Bw horizon is in some pedons.

Cocolalla Series

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Depressions, drainageways
Parent material: Alluvium derived from volcanic ash with an influence of loess in the upper part
Slope range: 0 to 3 percent
Elevation: 1,950 to 2,550 feet
Average annual precipitation: 15 to 20 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Ashy, glassy, mesic Aquandic Endoaquolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 11 inches; dark gray (10YR 4/1) ashy silt loam, black (10YR 2/1) moist; moderate medium subangular blocky structure; friable, slightly hard, nonsticky and moderately plastic; common very fine and fine roots throughout; common very fine irregular pores; moderately acid; abrupt smooth boundary.

A2—11 to 28 inches; gray (2.5Y 6/1) ashy silt loam, black (10YR 2/1) moist; moderate medium subangular blocky structure; friable, slightly hard, slightly sticky and slightly plastic; common very fine and fine roots throughout; common very fine irregular pores; 4 percent fine masses of oxidized iron-manganese that are dark yellowish brown (10YR 3/4) moist; neutral; abrupt wavy boundary.

Cg1—28 to 37 inches; white (10YR 8/1) ashy silt loam, light brownish gray (10YR 6/2) moist; massive; very friable, soft, nonsticky and nonplastic; common very fine and fine roots throughout; common very fine irregular pores; neutral; clear wavy boundary.

Cg2—37 to 43 inches; white (2.5Y 8/1) ashy silt loam, dark grayish brown (2.5Y 4/2) moist; massive; very friable, soft, nonsticky and nonplastic; common very fine and fine roots throughout; common very fine irregular pores; 5 percent fine masses of oxidized iron-manganese that are light olive brown (2.5Y 5/6) moist; neutral; clear wavy boundary.

Ab—43 to 54 inches; light gray (10YR 7/1) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure; friable, slightly hard, slightly sticky and slightly plastic; common very fine and fine roots throughout; common very fine irregular pores; 5 percent medium masses of oxidized iron-manganese that are dark yellowish brown (10YR 3/6) moist; neutral; clear wavy boundary.

Cgb—54 to 60 inches; pale yellow (2.5Y 8/2) ashy silt loam, light brownish gray (2.5Y 6/2) moist; massive; friable, slightly hard, slightly sticky and slightly plastic; common very fine and fine roots throughout; common very fine irregular pores; 5 percent medium masses of oxidized iron-manganese that are light yellowish brown (2.5Y 6/4) moist and 5 percent medium iron depletions that are greenish gray (10G 6/1) moist; neutral.

Typical Pedon Location

Map unit in which located: Cocolalla ashy silt loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 7.5 miles west of Nine Mile Falls, Washington; about 1,450 feet north and 625 feet east of the southwest corner of section 1, T. 26 N., R. 40 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 20 inches

Volcanic glass content—more than 60 percent in particle-size control section

Depth to apparent water table—soil surface to a depth of 11 inches in January through April, more than 11 inches in May through December

Depth to redoximorphic features (where present)—10 to 20 inches

A horizon

Hue—2.5Y, 10YR

Value—3 to 6 dry, 2 or 3 moist

Chroma—1 or 2 dry or moist
Clay content—10 to 20 percent
Reaction—moderately acid to neutral

Cg horizon
Hue—2.5Y, 10YR, 5Y
Value—5 to 8 dry, 3 to 6 moist
Chroma—1 or 2 dry or moist
Texture—dominantly ashy silt, ashy silt loam, or ashy very fine sandy loam; silty clay loam or clay loam in lower part of some pedons in areas where buried horizons are not present
Clay content—1 to 5 percent
Gravel—0 to 10 percent
Reaction—neutral, slightly alkaline

Ab horizon (where present)
Hue—2.5Y, 10YR
Value—5 to 7 dry, 2 to 4 moist
Chroma—1 to 3 moist or dry
Texture—ashy silt, ashy silt loam, ashy very fine sandy loam
Clay content—4 to 18 percent
Gravel—0 to 10 percent
Reaction—neutral, slightly alkaline

Cgb horizon (where present)
Hue—2.5Y, 10YR
Value—6 to 8 dry, 4 to 6 moist
Chroma—1 or 2 dry or moist
Texture—ashy silt, ashy silt loam, ashy very fine sandy loam, silty clay loam
Clay content—4 to 30 percent
Gravel—0 to 10 percent
Reaction—neutral, slightly alkaline

Colburn Taxadjunct

Depth class: Very deep
Drainage class: Somewhat poorly drained
Position on landscape: Drainageways of glacial outwash terraces
Parent material: Mixed alluvium with an influence of loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Elevation: 1,860 to 2,400 feet
Average annual precipitation: 20 to 30 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Coarse-loamy, mixed, superactive, frigid Aquandic Haploxerepts

Taxadjunct Features

The Colburn soils in this survey area are a taxadjunct to the series because they do not meet the criteria for a contrasting particle-size class. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oe—0 to 1 inch; moderately decomposed organic material.

A—1 to 5 inches; light brownish gray (10YR 6/2) ashy loam, 15 percent very dark gray (10YR 3/1) and 85 percent dark grayish brown (10YR 4/2) moist; moderate medium subangular blocky structure; slightly hard, very friable, nonsticky and slightly plastic; common fine and coarse and few medium roots throughout; common very fine tubular and irregular pores; moderately acid; abrupt smooth boundary.

Bw1—5 to 12 inches; pale brown (10YR 6/3) ashy fine sandy loam, brown (10YR 4/3) moist; moderate fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; few fine and medium roots throughout; many fine and very fine tubular and irregular pores; slightly acid; clear smooth boundary.

Bw2—12 to 21 inches; very pale brown (10YR 8/2) ashy fine sandy loam, brown (10YR 5/3) moist; moderate thick platy structure; soft, very friable, nonsticky and slightly plastic; few fine roots throughout; common very fine tubular and irregular pores; 5 percent very fine faint irregular masses of oxidized iron that are light olive brown (2.5Y 5/4) moist and on faces of peds; neutral; abrupt smooth boundary.

Bw3—21 to 32 inches; light yellowish brown (2.5Y 6/3) sandy loam, olive brown (2.5Y 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common fine roots throughout; common fine irregular pores; 2 percent faint masses of manganese that are black (2.5Y 2.5/1) moist; 10 percent fine and medium masses of oxidized iron that are dark yellowish brown (10YR 4/4) moist; 15 percent iron depletions that are grayish brown (2.5Y 5/2) moist; 2 percent fine mica flakes; 1 percent gravel; neutral; gradual wavy boundary.

Cg1—32 to 43 inches; light gray (2.5Y 7/2) loamy coarse sand, grayish brown (2.5Y 5/2) moist; massive; loose, nonsticky and nonplastic; common fine roots throughout; common fine irregular pores; 2 percent faint masses of manganese that are black (2.5Y 2.5/1) moist; 10 percent fine and medium masses of oxidized iron that are dark yellowish brown (10YR 4/4) moist; 15 percent iron depletions that are grayish brown (2.5Y 5/2) moist; 2 percent fine mica flakes; 1 percent gravel; neutral; gradual wavy boundary.

Cg2—43 to 55 inches; light yellowish brown (2.5Y 6/3) extremely gravelly loamy coarse sand, dark grayish brown (10YR 4/2) moist; single grain; loose, nonsticky and nonplastic; few very fine and fine roots; common very fine and few fine and medium irregular and interstitial pores; 15 percent fine and medium mica flakes; 60 percent gravel; slightly alkaline; clear wavy boundary.

Cg3—55 to 63 inches; light olive brown (2.5Y 5/4) loamy coarse sand, dark grayish brown (10YR 4/2) moist; single grain; loose, nonsticky and nonplastic; few very fine roots; common very fine and fine irregular and interstitial pores; 20 percent distinct masses of iron-manganese that are dark yellowish brown (10YR 4/6) moist and are throughout and 2 percent medium distinct masses of reduced iron that are very dark gray (10YR 3/1) moist and are throughout; 10 percent medium mica flakes; 2 percent fine gravel; slightly alkaline.

Typical Pedon Location

Map unit in which located: Colburn ashy loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 1 mile southeast of Elk, Washington; about 1,100 feet south and 200 feet east of the northwest corner of section 21, T. 29 N., R. 44 E.

Range in Characteristics

Profile
Volcanic ash influence—zone from 7 to 25 inches
Depth to sand or loamy sand—20 to 40 inches
Depth to apparent water table—20 to 40 inches in December through May, 40 to 60 inches or more in January through November
Depth to redoximorphic features (where present)—20 to 40 inches

A horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Texture—ashy loam, ashy fine sandy loam
Clay content—8 to 15 percent
Gravel content—0 to 5 percent
Reaction—moderately acid to neutral

Bw horizon
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 or 4 dry or moist
Texture—ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, sandy loam
Clay content—5 to 12 percent
Gravel content—0 to 10 percent
Reaction—slightly acid, neutral

Cg horizon
Hue—10YR, 2.5Y, variegated
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—coarse sand, loamy coarse sand, loamy sand, sand, sandy loam
Clay content—0 to 5 percent
Gravel content—0 to 60 percent
Cobble content—0 to 10 percent
Total rock fragment content—0 to 60 percent
Reaction—slightly acid to slightly alkaline

C horizon (where present)
Hue—10YR, 2.5Y, variegated
Value—6 or 7 dry, 4 to 5 moist
Chroma—3 or 4 dry or moist
Texture—coarse sand, loamy coarse sand, loamy sand, sand
Clay content—0 to 8 percent
Gravel content—0 to 30 percent
Reaction—slightly acid to slightly alkaline

Dearyton Series

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Footslopes, summits, and backslopes of hills
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from saprolitic gneiss, quartzite, Latah Formation, and till
Slope range: 0 to 30 percent
Elevation: 1,900 to 3,000 feet

Average annual precipitation: 18 to 25 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine, isotic, mesic Vitrandic Palexeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, twigs, and leaves.
A—1 to 6 inches; brown (10YR 5/3) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium roots; common very fine and fine tubular and irregular pores; slightly acid; clear wavy boundary.
BE—6 to 12 inches; pale brown (10YR 6/3) ashy silt loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular and irregular pores; 10 percent skeletans on vertical faces of peds; 2 percent fine iron-manganese concretions; slightly acid; abrupt wavy boundary.
2Bt1—12 to 18 inches; brown (7.5YR 4/4) clay loam, brown (7.5YR 4/4) moist; strong coarse prismatic structure; extremely hard, extremely firm, very sticky and very plastic; few very fine and fine roots; few very fine irregular pores; 100 percent prominent clay films on vertical faces of peds; 2 percent fine iron-manganese concretions; 2 percent gravel; strongly acid; gradual wavy boundary.
2Bt2—18 to 28 inches; strong brown (7.5YR 4/6) clay loam, strong brown (7.5YR 4/6) moist; strong medium and coarse prismatic structure; extremely hard, extremely firm, very sticky and very plastic; few very fine roots; many very fine irregular pores; 100 percent prominent clay films on vertical faces of peds; 2 percent fine iron-manganese concretions; 2 percent gravel; slightly acid; abrupt wavy boundary.
2Bt3—28 to 38 inches; strong brown (7.5YR 4/6) clay loam, brown (7.5YR 4/4) moist; strong medium and coarse prismatic structure; very hard, very firm, very sticky and very plastic; few very fine roots; few very fine and fine irregular pores; 30 percent distinct and 70 percent prominent clay films on vertical faces of peds; 2 percent fine mica flakes; 5 percent gravel; neutral; clear wavy boundary.
2Bt4—38 to 55 inches; brown (7.5YR 5/4) clay loam, brown (7.5YR 4/4) moist; moderate medium and coarse subangular blocky structure; very hard, very firm, moderately sticky and moderately plastic; few very fine roots; few very fine irregular pores; 5 percent organoargillans and 20 percent clay films on vertical faces of peds; 2 percent fine mica flakes; 5 percent gravel; neutral; clear wavy boundary.
2Bt5—55 to 60 inches; strong brown (7.5YR 5/6) gravelly clay loam, strong brown (7.5YR 5/6) moist; moderate coarse subangular blocky structure; very hard, very firm, moderately sticky and moderately plastic; few very fine roots throughout; common very fine irregular pores; 20 percent distinct clay films on vertical faces of peds; 10 percent fine mica flakes; 5 percent paragravel and 25 percent gravel; slightly alkaline.

Typical Pedon Location

Map unit in which located: Dearyton ashy silt loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 0.5 mile east of Mica, Washington; about 1,950 feet north and 2,355 feet east of the southwest corner of section 23, T. 24 N., R. 44 E.

Range in Characteristics

Profile
Thickness of volcanic ash influence—7 to 14 inches
Depth to perched water table—6 to 12 inches in January through April
Depth to redoximorphic features—6 to 15 inches
Depth to argillic horizon—8 to 15 inches

O horizon
Absent in some pedons

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Reaction—slightly acid, neutral

BE horizon
Value—6 to 8 dry, 3 to 5 moist
Chroma—1 to 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—12 to 20 percent
Gravel content—0 to 5 percent fine gravel
Reaction—slightly acid, neutral

E horizon (where present)
Hue—10YR
Value—6 or 7 dry, 5 or 6 moist
Chroma—3 dry or moist
Texture—ashy silt loam, ashy loam
Gravel content—0 to 5 percent fine gravel
Reaction—moderately acid to neutral

2Bt horizon
Hue—10YR, 7.5YR, 5YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 to 6 dry or moist
Texture—silty clay, clay, clay loam, silty clay loam; gravelly or cobbly in some pedons
Clay content—35 to 50 percent in upper part, 32 to 45 percent in lower part
Gravel content—0 to 20 percent in upper part, 0 to 25 percent in lower part
Paragravel content—0 to 10 percent
Cobble content—0 to 20 percent
Total rock fragment content—0 to 20 percent in upper part, 0 to 30 percent in lower part
Reaction—moderately acid to neutral in upper part, slightly acid to slightly alkaline in lower part

Deno Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Patterned ground mounds on basalt plateaus of channeled scablands
Parent material: Loess mixed with a minor amount of volcanic ash over residuum derived from basalt or glaciofluvial deposits
Slope range: 0 to 15 percent

Elevation: 1,820 to 2,500 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Coarse-loamy, mixed, superactive, mesic Vitrandic Haploxerolls (fig. 23)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 4 inches; grayish brown (10YR 5/2) ashy silt loam, very dark brown (10YR 2/2) moist; moderate coarse granular structure; slightly hard, very friable, nonsticky and nonplastic; many very fine and few fine roots; common very fine tubular and irregular pores; 2 percent gravel; neutral; clear smooth boundary.
A2—4 to 14 inches; grayish brown (10YR 5/2) ashy loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; common very fine and few fine roots; common very fine tubular pores; 5 percent gravel; neutral; clear smooth boundary.
A3—14 to 28 inches; grayish brown (10YR 5/2) ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine and few fine roots; common very fine tubular pores; 3 percent gravel; slightly effervescent; moderately alkaline; abrupt smooth boundary.
Bw1—28 to 40 inches; yellowish brown (10YR 5/4) loam, dark brown (10YR 3/3) moist; moderate coarse subangular blocky structure; slightly hard, very friable, nonsticky and slightly plastic; common very fine and few fine roots; common very fine and few fine tubular pores and few very fine irregular pores; 3 percent gravel; slightly effervescent; moderately alkaline; clear smooth boundary.
Bw2—40 to 48 inches; light yellowish brown (10YR 6/4) coarse sandy loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; common very fine and few medium roots; common very fine and few fine tubular pores and few very fine irregular pores; 4 percent gravel; slightly effervescent; slightly alkaline; abrupt wavy boundary.
2R—48 inches; unweathered basalt.

Typical Pedon Location

Map unit in which located: Rockly-Deno complex, 0 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 1 mile southwest of Airway Heights, Washington; about 2,300 feet south and 700 feet east of the northwest corner of section 27, T. 25 N., R. 41 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—20 to 30 inches
Thickness of volcanic ash influence—20 to 30 inches
Depth to bedrock—40 to 60 inches (lithic)
Clay content in particle-size control section—4 to 18 percent

A1 horizon
Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—10 to 18 percent
Gravel content—0 to 5 percent
Reaction—slightly acid, neutral

Figure 23.—Typical profile of a Deno soil. Numerals on tape indicate inches.

A2 and A3 horizon
Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—10 to 18 percent
Gravel content—0 to 20 percent
Reaction—slightly acid to moderately alkaline

A AB or BA horizon is in some pedons.

Bw horizon
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry, 2 to 4 moist
Texture—silt loam, loam, sandy loam, coarse sandy loam

Clay content—4 to 18 percent
Gravel content—0 to 20 percent
Reaction—slightly alkaline, moderately alkaline

BC or C horizon (where present)
Kind of material—glacial flood deposits

Driscoll Taxadjunct

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Summits, shoulders, and backslopes on loess hills of basalt plateaus
Parent material: Younger loess over older loess
Slope range: 0 to 25 percent
Elevation: 2,380 to 3,100 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine, mixed, superactive, mesic Aquic Palexerolls (fig. 24)

Taxadjunct Features

The Driscoll soils in this survey area are a taxadjunct to the series because the perched water table meets the criteria for the aquic subgroup. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 5 inches; grayish brown (10YR 5/2) silt loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure parting to weak very fine granular structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and few medium roots; many very fine and fine tubular pores; moderately acid; clear smooth boundary.

Ap2—5 to 10 inches; grayish brown (10YR 5/2) silt loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine tubular pores; moderately acid; gradual wavy boundary.

AB—10 to 17 inches; grayish brown (10YR 5/2) and brown (10YR 5/3) silt loam, very dark grayish brown (10YR 3/2) and dark brown (10YR 3/3) moist; moderate medium subangular blocky structure parting to weak fine granular; slightly hard, very friable, slightly sticky and slightly plastic; common very fine roots; many very fine and fine and few medium tubular pores; slightly acid; clear irregular boundary.

EBtc—17 to 24 inches; pale brown (10YR 6/3) and brown (10YR 5/3) silt loam, brown (10YR 4/3) and dark grayish brown (10YR 4/2) moist; moderate medium and coarse subangular blocky structure; moderately hard, friable, slightly sticky and slightly plastic; common very fine roots; many very fine and fine and few medium and coarse tubular pores; 5 percent discontinuous distinct clay films along pores; 15 percent continuous distinct silt coatings on faces of peds; 10 percent continuous distinct sand coatings on faces of peds; 5 percent fine distinct weakly cemented iron-manganese concretions in matrix; slightly acid; clear smooth boundary.

Ec—24 to 26 inches; light gray (2.5Y 7/2) silt loam, light yellowish brown (2.5Y 6/3) moist; weak fine subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; common very fine roots; common very fine tubular pores; 15 percent fine distinct weakly cemented iron-manganese concretions in matrix; slightly acid; abrupt smooth boundary.

Btb1—26 to 42 inches; yellowish brown (10YR 5/6 and 5/4) silty clay, dark brown (7.5YR 3/4) and brown (7.5YR 4/4) moist; strong coarse prismatic structure; extremely hard, extremely firm, very sticky and very plastic; common very fine roots; many very fine and fine tubular pores; 35 percent continuous prominent clay films that are brown (7.5YR 4/2) moist and on faces of peds; 10 percent fine distinct weakly cemented iron-manganese concretions in matrix; neutral; clear wavy boundary.

Figure 24.—Typical profile of a Driscoll soil.

Btb2—42 to 49 inches; light yellowish brown (10YR 6/4) and yellowish brown (10YR 5/4) silty clay, brown (10YR 4/3) and dark yellowish brown (10YR 4/4) moist; moderate coarse prismatic structure; moderately hard, firm, moderately sticky and moderately plastic; common very fine roots; common very fine and fine tubular pores; 10 percent discontinuous prominent organoargillans on vertical faces of peds, 30 percent continuous prominent clay films on faces of peds, and 30 percent distinct clay films along pores; 15 percent fine distinct weakly cemented iron-manganese concretions in matrix; neutral; gradual wavy boundary.

Btb3—49 to 61 inches; light yellowish brown (10YR 6/4) and very pale brown (10YR 7/3) silty clay loam, dark yellowish brown (10YR 3/4) and brown (10YR 4/3) moist; moderate medium prismatic structure; moderately hard, firm, slightly sticky and slightly plastic; common very fine roots; common very fine and fine tubular pores; 25 percent continuous prominent clay films on faces of peds and 30 percent distinct clay films along pores; 15 percent fine distinct weakly cemented iron-manganese concretions in matrix; 2 percent subrounded gravel; slightly alkaline.

Typical Pedon Location

Map unit in which located: Southwick-Driscoll complex, 3 to 15 percent slopes

Location in survey area: Benewah County, Idaho, about 4 miles northwest of the town of Plummer, Idaho, and 1.5 miles south of the county line; about 2,270 feet south and 695 feet east of the northwest corner of section 9, T. 46 N., R. 5 W.

Range in Characteristics

Profile

Depth to perched water table—21 to 28 inches in January through April
Depth to redoximorphic features—17 to 26 inches
Depth to abrupt textural change—25 to 35 inches

Ap horizon

Hue—10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—15 to 25 percent
Reaction—moderately acid, slightly acid

AB horizon

Hue—10YR
Value—4 or 5 dry, 2 to 4 moist
Chroma—2 to 3 dry or moist
Texture—silt loam
Clay content—17 to 25 percent
Reaction—moderately acid, slightly acid

EBtc horizon (where present)

Hue—10YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Texture—silt loam
Clay content—15 to 25 percent
Reaction—slightly acid, neutral

Ec horizon

Hue—10YR, 2.5Y
Value—5 to 7 dry, 4 to 6 moist
Chroma—2 to 4 dry, 3 or 4 moist

Texture—silt loam
Clay content—10 to 23 percent
Reaction—moderately acid to neutral

Btb1 and Btb2 horizons
Hue—7.5YR, 10YR
Value—4 to 6 dry, 3 to 5 moist
Chroma—3 to 6 dry or moist
Texture—silty clay, silty clay loam
Clay content—32 to 48 percent
Gravel content—0 to 5 percent
Reaction—moderately acid to neutral

Btb3 horizon
Hue—7.5YR, 10YR
Value—4 to 7 dry, 3 to 5 moist
Chroma—3 to 6 dry, 3 or 4 moist
Texture—silty clay loam, silty clay
Clay content—28 to 40 percent
Gravel content—0 to 5 percent
Reaction—neutral, slightly alkaline

Elmira Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Undulating to hilly dunes on outwash terraces
Parent material: Sandy glaciofluvial deposits
Slope range: 3 to 60 percent
Elevation: 1,900 to 2,240 feet
Average annual precipitation: 22 to 28 inches
Average annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Mixed, frigid Lamellic Xeropsamments

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles and twigs.
A—1 to 6 inches; brown (10YR 5/3) loamy sand, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; many fine and common medium and coarse roots; many fine interstitial pores; slightly acid; clear wavy boundary.
Bw—6 to 12 inches; pale brown (10YR 6/3) loamy sand, brown (10YR 4/3) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; common fine, medium, and coarse roots; many fine interstitial pores; slightly acid; clear wavy boundary.
E—12 to 23 inches; pale yellow (2.5Y 7/3) sand, light olive brown (2.5Y 5/3) moist; single grain; loose, nonsticky and nonplastic; few fine, medium, and coarse roots; many fine interstitial pores; slightly acid; gradual wavy boundary.
E and Bt1—23 to 54 inches; light yellowish brown (2.5Y 6/3) sand, olive brown (2.5Y 4/3) moist (E part); single grain; loose, nonsticky and nonplastic; seven $^{1}/_{2}$-inch-thick continuous faint wavy bands of lamellae that are light yellowish brown (10YR 6/4), dark yellowish brown (10YR 4/4) moist (Bt part); few fine and

medium roots; many fine interstitial pores; slightly acid; clear wavy boundary.

E and Bt2—54 to 66 inches; light yellowish brown (2.5Y 6/3) sand, olive brown (2.5Y 4/3) moist (E part); single grain; loose, nonsticky and nonplastic; five 1/4-inch-thick continuous faint wavy bands of lamellae that are light yellowish brown (10YR 6/4) (Bt part), dark yellowish brown (10YR 4/4) moist; few fine roots; many fine interstitial pores; slightly acid; clear wavy boundary.

E and Bt3—66 to 80 inches; light yellowish brown (2.5Y 6/3) sand, olive brown (2.5Y 4/3) moist (E part); single grain; loose, nonsticky and nonplastic; eleven 1/8-inch-thick continuous faint wavy bands of lamellae that are pale brown (10YR 6/3) (Bt part), brown (10YR 4/3) moist; many fine interstitial pores; slightly acid.

Typical Pedon Location

Map unit in which located: Elmira loamy sand, 3 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 4 miles southeast of Deer Park, Washington; about 1,430 feet west and 95 feet north of the southeast corner of section 19, T. 28 N., R. 43 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—4 to 8 inches
Clay content—0 to 5 percent throughout
Gravel content—0 to 5 percent
Reaction—slightly acid, neutral

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist

Bw horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist

E horizon

Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy sand, sand

E and Bt horizon

E part:
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Gravel content—0 to 5 percent
B part:
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy sand, sand
Combined thickness of lamellae—less than 6 inches
Gravel content—0 to 5 percent

C horizon (where present)

Texture—sand

Eloika Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Outwash plains
Parent material: Thick mantle of volcanic ash mixed with loess over outwash
Slope range: 0 to 8 percent
Elevation: 1,800 to 2,600 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Ashy over loamy, glassy over isotic, frigid Typic Vitrixerands

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material.
A—1 to 6 inches; brown (10YR 5/3) ashy very fine sandy loam, dark brown (10YR 3/3) moist; strong fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and common medium roots; common very fine tubular pores; 2 percent subrounded gravel; neutral; abrupt wavy boundary.
Bw1—6 to 14 inches; yellowish brown (10YR 5/4) ashy very fine sandy loam, dark yellowish brown (10YR 3/4) moist; moderate medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and many fine, medium, and coarse roots; few very fine tubular pores; 2 percent subrounded gravel; neutral; clear wavy boundary.
Bw2—14 to 21 inches; light yellowish brown (10YR 6/4) ashy very fine sandy loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine, many medium, and few coarse roots; common very fine tubular pores; 2 percent subrounded gravel; neutral; clear wavy boundary.
2Bw3—21 to 41 inches; brown (10YR 6/4) sandy loam, yellowish brown (10YR 5/4) moist; weak coarse subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; few very fine, fine, and medium roots; common very fine tubular pores and many fine interstitial pores; 5 percent subrounded gravel; slightly acid; abrupt wavy boundary.
3Bq—41 to 60 inches; variegated very gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few very fine roots; many fine and medium irregular pores; 20 percent silica on bottom surfaces of rock fragments; 55 percent subrounded gravel; 2 percent cobbles; slightly acid.

Typical Pedon Location

Map unit in which located: Eloika ashy very fine sandy loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 4 miles northwest of Deer Park, Washington; about 1,300 feet south and 1,900 feet west of the northeast corner of section 20, T. 29 N., R. 43 E.

Range in Characteristics

Profile
Depth to sandy-skeletal material—25 to 40 inches
Thickness of volcanic ash mantle—14 to 20 inches
Reaction—slightly acid, neutral

A horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy very fine sandy loam
Clay content—3 to 9 percent
Gravel content—0 to 10 percent

Bw horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy silt loam, ashy very fine sandy loam, ashy loam, ashy sandy loam
Clay content—3 to 9 percent
Gravel content—0 to 15 percent

2Bw horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam
Clay content—5 to 10 percent
Gravel content—0 to 20 percent

3Bq horizon, and C horizon (where present, in pedons that do not contain silica)
Texture—loamy coarse sand, coarse sand, sand
Clay content—1 to 5 percent
Gravel content—35 to 55 percent
Cobble content—0 to 5 percent
Total rock fragment content—35 to 60 percent

Emdent Series

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Depressions, drainageways, flood plains
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Elevation: 2,110 to 2,420 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Ashy, glassy, calcareous, mesic Aquandic Endoaquolls

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Aknzp—0 to 6 inches; very dark brown (10YR 2/2) ashy silt loam, gray (10YR 5/1) dry; weak medium subangular blocky structure parting to moderate fine granular; friable, slightly hard, slightly sticky and slightly plastic; common fine and medium roots throughout; common very fine and fine tubular pores; strongly effervescent; strongly alkaline; clear smooth boundary.

ABknz—6 to 9 inches; very dark grayish brown (10YR 3/2) ashy silt loam, gray (10YR 5/1) dry; moderate thick platy structure; friable, slightly hard, slightly sticky and slightly plastic; common very fine and fine roots throughout; common very fine and fine tubular pores; strongly effervescent; strongly alkaline; clear smooth boundary.

Bknz—9 to 13 inches; dark brown (10YR 3/3) ashy silt loam, grayish brown (10YR 5/2) dry; weak medium subangular blocky structure; friable, slightly hard, slightly

sticky and slightly plastic; common fine roots throughout; common very fine and fine tubular pores; 2 percent fine distinct masses of iron-manganese accumulation throughout; slightly effervescent; strongly alkaline; clear smooth boundary.

C1—13 to 21 inches; brown (10YR 5/3) ashy silt loam, light brownish gray (10YR 6/2) dry; massive; friable, slightly hard, slightly sticky and slightly plastic; common fine roots throughout; common very fine tubular pores; 5 percent fine masses of iron-manganese accumulation along root channels; noneffervescent; strongly alkaline; clear smooth boundary.

C2—21 to 28 inches; pale brown (10YR 6/3) ashy silt loam, light gray (10YR 7/2) dry; massive; friable, slightly hard, slightly sticky and slightly plastic; common fine roots throughout; common fine tubular pores; 2 percent fine distinct iron-manganese concretions throughout and 7 percent fine distinct masses of iron-manganese accumulation throughout; noneffervescent; strongly alkaline; clear smooth boundary.

C3—28 to 60 inches; pale brown (10YR 6/3) ashy silt, white (10YR 8/1) dry; massive; friable, slightly hard, slightly sticky and slightly plastic; common fine roots throughout; common very fine tubular pores; 10 percent medium faint masses of iron-manganese accumulation that are yellowish brown (10YR 5/6) moist and are throughout; noneffervescent; strongly alkaline.

Typical Pedon Location

Map unit in which located: Emdent ashy silt loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 1,780 feet north and 270 feet west of the southeast corner of section 30, T. 23 N., R. 41 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 20 inches

Zone of secondary calcium carbonate accumulation—0 to 20 inches

Zone of exchangeable sodium accumulation—0 to 20 inches

Depth to apparent water table—soil surface to a depth of 6 inches in January through April, more than 6 inches in May through December

Depth to redoximorphic features—10 to 20 inches

Aknzp horizon

Value—4 or 5 dry, 2 or 3 moist

Chroma—1 to 3 dry or moist

Effervescence—strongly effervescent, violently effervescent

Reaction—strongly alkaline

Bknz horizon

Value—5 to 7 dry

Chroma—1 to 3 dry or moist

Texture—ashy loam, ashy silt loam

Effervescence—slightly effervescent to violently effervescent

Reaction—moderately alkaline, strongly alkaline

C horizon

Value—6 to 8 dry, 5 to 7 moist

Chroma—1 or 2 dry, 2 or 3 moist

Texture—ashy very fine sandy loam, ashy silt, ashy silt loam

Gravel content—0 to 5 percent

Effervescence—noneffervescent, slightly effervescent

Reaction—moderately alkaline, strongly alkaline

Endoaquolls

Depth class: Deep, very deep
Drainage class: Poorly drained
Position on landscape: Flood plains, drainageways, stream terraces, seeps
Parent material: Alluvium derived from mixed sources
Slope range: Dominantly 0 to 3 percent, but more than 3 percent in areas of seeps
Elevation: 1,540 to 2,900 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Endoaquolls

Representative Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Ap—0 to 5 inches; very dark brown (10YR 2/2) loam, dark grayish brown (10YR 4/2) dry; strong medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine and few medium roots; many fine irregular pores and many medium tubular pores; neutral; abrupt smooth boundary.

A—5 to 11 inches; very dark grayish brown (10YR 3/2) loam, grayish brown (10YR 5/2) dry; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium roots; many fine irregular pores and many medium tubular pores; 2 percent medium strong brown (7.5YR 5/6) masses of oxidized iron on faces of peds; neutral; clear smooth boundary.

Bg1—11 to 19 inches; dark grayish brown (10YR 4/2) sandy loam, light brownish gray (10YR 6/2) dry; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; common fine irregular pores; 5 percent medium strong brown (7.5YR 5/6) masses of oxidized iron on faces of peds; neutral; clear smooth boundary.

Bg2—19 to 28 inches; dark grayish brown (10YR 4/2) fine sandy loam, light brownish gray (10YR 6/2) dry; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; common fine irregular pores; 10 percent medium strong brown (7.5YR 5/6) masses of oxidized iron on faces of peds; neutral; clear smooth boundary.

Cg—28 to 45 inches; dark grayish brown (10YR 4/2) fine sandy loam, light brownish gray (10YR 6/2) dry; massive; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; common fine irregular pores; 20 percent medium strong brown (7.5YR 5/6) masses of oxidized iron on faces of peds; neutral; clear smooth boundary.

C—45 to 60 inches; olive brown (2.5Y 4/3), stratified sandy loam to fine sandy loam, light yellowish brown (2.5Y 6/3) dry; massive; soft, very friable, nonsticky and nonplastic; few very fine roots; common fine irregular pores; 25 percent coarse strong brown (7.5YR 5/6) masses of oxidized iron on faces of peds; neutral.

Representative Pedon Location

Map unit in which located: Endoaquolls and Fluvaquents, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 7 miles north of Nine Mile Falls, Washington; about 100 feet north and 700 feet east of the southwest corner of section 4, T. 27 N., R. 42 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 20 inches
Depth to apparent water table—soil surface to a depth of 5 inches in January through April, more than 5 inches in May through December
Depth to redoximorphic features—5 to 10 inches
Depth to bedrock (where present)—40 to 60 inches (paralithic)
Reaction—slightly acid or neutral throughout

A horizon
Value—2 or 3 moist, 4 or 5 dry
Chroma—1 to 3 dry or moist
Texture—silt loam, loam, fine sandy loam
Clay content—5 to 25 percent
Gravel content—0 to 10 percent

Bg horizon
Value—2 to 4 moist, 4 to 6 dry
Chroma—1 or 2 dry or moist
Texture—fine sandy loam, sandy loam, loam, silt loam, silty clay loam
Clay content—5 to 30 percent
Gravel content—0 to 20 percent

Cg horizon
Value—2 to 4 moist, 4 to 6 dry
Chroma—1 or 2 dry or moist
Texture—loam, fine sandy loam, sandy loam, coarse sandy loam
Clay content—0 to 18 percent
Gravel content—0 to 45 percent
Cobble content—0 to 5 percent
Total rock fragment content—0 to 50 percent

C horizon
Value—2 to 4 moist, 4 to 6 dry
Chroma—2 or 3 dry or moist
Texture—stratified fine sandy loam to sandy loam, coarse sandy loam, loamy sand
Clay content—0 to 10 percent
Gravel content—0 to 55 percent
Cobble content—0 to 15 percent
Total rock fragment content—0 to 55 percent

A 2Cr horizon is in some pedons.

Some pedons have layers of sapric material, hemic material, diatoms, or volcanic ash or have weathered granite.

Fan Lake Series

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Relict glacial lake terraces, outwash plains
Parent material: Thin mantle of volcanic ash mixed with loess over glaciofluvial deposits, glaciolacustrine deposits, or Latah Formation
Slope range: 0 to 25 percent

Elevation: 2,000 to 2,400 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Fine-loamy, isotic, frigid Andic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 4 inches; brown (10YR 5/3) ashy very fine sandy loam, dark brown (10YR 3/3) moist; moderate fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; weakly smeary; many fine and medium and few coarse roots; common fine irregular pores; neutral; clear smooth boundary.

AB—4 to 8 inches; pale brown (10YR 6/3) ashy very fine sandy loam, brown (10YR 4/3) moist; moderate thin platy structure; soft, friable, nonsticky and nonplastic; weakly smeary; common fine and few medium and coarse roots; common very fine irregular pores; neutral; clear smooth boundary.

Bw—8 to 16 inches; light yellowish brown (10YR 6/4) ashy fine sandy loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and nonplastic; common fine and few medium and coarse roots; common fine irregular pores; slightly acid; clear smooth boundary.

2E—16 to 24 inches; pale yellow (2.5Y 7/3) fine sandy loam, light olive brown (2.5Y 5/3) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and nonplastic; common fine roots; many fine irregular pores; 1 percent gravel; slightly acid; gradual wavy boundary.

2E/Bt—24 to 36 inches; 70 percent pale yellow (2.5Y 7/3) loam, light olive brown (2.5Y 5/3) moist (E part); 30 percent light yellowish brown (2.5Y 6/4) loam, olive brown (2.5Y 4/4) moist (Bt part); moderate medium subangular blocky structure; slightly hard, friable, moderately sticky and moderately plastic; few fine roots; many fine irregular pores; 20 percent distinct clay films on faces of peds; 1 percent gravel; neutral; gradual wavy boundary.

2Btx—36 to 51 inches; light yellowish brown (2.5Y 6/4) clay loam, olive brown (2.5Y 4/4) moist; strong coarse angular blocky structure; hard, firm, moderately sticky and moderately plastic; few fine roots; many fine irregular pores; 30 percent distinct clay films that are dark yellowish brown (10YR 4/4) moist and on faces of peds and 1 percent prominent organic stains that are black (10YR 2/1) moist; 2 percent distinct masses of oxidized iron that are yellowish brown (10YR 5/4) moist; 30 percent fragic properties; 1 percent gravel; neutral; clear wavy boundary.

3C1—51 to 57 inches; light yellowish brown (2.5Y 6/3) fine sandy loam, olive brown (2.5Y 4/3) moist; massive; soft, very friable, slightly sticky and slightly plastic; common fine irregular pores; 2 percent distinct masses of oxidized iron that are yellowish brown (10YR 5/4) moist; slightly acid; clear wavy boundary.

3C2—57 to 60 inches; light yellowish brown (10YR 6/4) sandy clay loam, dark yellowish brown (10YR 4/4) moist; massive; slightly hard, friable, moderately sticky and moderately plastic; common fine irregular pores; 2 percent prominent iron depletions that are dark grayish brown (2.5Y 4/2) moist and 2 percent faint masses of oxidized iron that are yellowish brown (10YR 5/4) moist; slightly acid.

Typical Pedon Location

Map unit in which located: Fan Lake ashy very fine sandy loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 5 miles northwest of Deer Park, Washington; about 200 feet south and 1,200 feet east of the northwest corner of section 9, T. 29 N., R. 42 E.

Range in Characteristics

Profile
Depth to argillic horizon—20 to 40 inches
Depth to fragic properties—20 to 40 inches
Depth to perched water table—16 to 24 inches in January through April
Depth to redoximorphic features—20 to 40 inches
Thickness of volcanic ash mantle with andic soil properties—7 to 14 inches
Thickness of volcanic ash influence without andic soil properties—5 to 14 inches

Ap horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—3 to 10 percent
Reaction—slightly acid, neutral

AB horizon
Chroma—3 or 4 dry or moist
Texture—ashy very sandy loam, ashy fine sandy loam, ashy silt loam
Clay content—3 to 10 percent
Reaction—slightly acid, neutral

Bw horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Clay content—3 to 10 percent
Reaction—slightly acid, neutral

2E horizon
Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 or 4 dry or moist
Texture—fine sandy loam, sandy loam, loam
Clay content—3 to 8 percent
Gravel content—0 to 5 percent
Reaction—slightly acid, neutral

2E/Bt horizon
E part:
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—1 to 3 dry, 2 to 4 moist
Texture—fine sandy loam, sandy loam, loam
Clay content—5 to 10 percent

Bt part:
Hue—10YR, 2.5Y
Value—3 or 4 dry
Texture—loam
Clay content—18 to 25 percent
Gravel content—0 to 5 percent
Reaction—slightly acid, neutral

A 2Bt/E horizon is in some pedons.

2Btx horizon
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist

Chroma—3 or 4 dry or moist
Texture—loam, silty clay loam, clay loam
Clay content—18 to 35 percent
Gravel content—0 to 5 percent
Reaction—moderately acid to neutral

3C horizon
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—stratified sand, loamy fine sand, fine sandy loam, very fine sandy loam, silt loam, sandy clay loam, or silty clay loam
Clay content—3 to 35 percent
Reaction—moderately acid to neutral

Fluvaquents

Depth class: Very deep
Drainage class: Very poorly drained
Position on landscape: Flood plains, drainageways, low stream terraces
Parent material: Alluvium derived from mixed sources
Slope range: 0 to 3 percent
Elevation: 1,540 to 2,400 feet
Average annual precipitation: 18 to 28 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fluvaquents

Representative Pedon

Unless otherwise indicated, colors in the description are for moist soil.

A—0 to 1 inch; brown (10YR 4/3) sandy loam, brown (10YR 5/3) dry; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many very fine and fine and few medium roots; many very fine and fine tubular pores; 10 percent fine mica; neutral; abrupt smooth boundary.
C—1 to 4 inches; mixed brown (10YR 5/3 and 4/3) sand, pale brown (10YR 6/3) dry; single grain; loose, nonsticky and nonplastic; many very fine and fine and few medium roots; many fine interstitial pores; 2 percent fine distinct yellowish brown (10YR 5/6) iron-manganese masses and 10 percent fine and medium faint gray (10YR 6/1) iron depletions; 15 percent fine mica; neutral; abrupt wavy boundary.
Cg1—4 to 12 inches; dark gray (2.5Y 4/1) sandy loam, light yellowish brown (2.5Y 6/3) dry; massive; soft, friable, nonsticky and nonplastic; common very fine and fine roots; common very fine and fine tubular pores; 10 percent medium prominent gray (10YR 6/1) iron-manganese concretions and 20 percent medium distinct very dark gray (2.5Y 3/1) iron depletions; 10 percent fine mica; slightly acid; abrupt wavy boundary.
Cg2—12 to 21 inches; dark grayish brown (2.5Y 4/2) sandy loam, light brownish gray (2.5Y 6/2) dry; single grain; loose, nonsticky and nonplastic; common very fine and fine and few medium roots; many fine interstitial pores; 15 percent fine and medium prominent dark yellowish brown (10YR 3/6) iron-manganese masses and 10 percent fine distinct gray (2.5Y 6/1) iron depletions; 15 percent fine mica; 10 percent rounded gravel; slightly acid; clear wavy boundary.
Cg3—21 to 31 inches; very dark gray (7.5YR 3/1) sandy loam, gray (2.5Y 5/1) dry; massive; soft, friable, nonsticky and nonplastic; common very fine and fine roots; common very fine and few fine tubular pores; 20 percent fine and medium

prominent yellowish red (5YR 4/6) iron-manganese masses; 10 percent fine mica; slightly acid; clear wavy boundary.
Cg4—31 to 40 inches; black (5Y 2.5/1), stratified fine sandy loam and coarse sand, olive gray (5Y 5/2) dry; massive; soft, friable, nonsticky and nonplastic; few very fine roots; 5 percent fine prominent strong brown (7.5YR 4/6) iron-manganese masses; 5 percent fine mica; moderately acid; clear wavy boundary.
Cg5—40 to 60 inches; very dark gray (N 3/0), stratified coarse sand and sandy loam; single grain; loose, nonsticky and nonplastic; 10 percent gravel; neutral.

Representative Pedon Location

Map unit in which located: Endoaquolls and Fluvaquents, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 1/4 mile south of State Route 206, in Deadman Creek; about 1,055 feet south and 1,450 feet east of the northwest corner of section 2, T. 26 N., R. 43 E.

Range in Characteristics

Profile
Depth to apparent water table—soil surface to a depth of 4 inches in January through April, more than 4 inches in May through December
Depth to redoximorphic features—0 to 10 inches

A horizon
Value—2 to 4 moist, 5 or 6 dry
Chroma—2 to 4 moist or dry
Clay content—5 to 15 percent
Gravel content—0 to 10 percent
Reaction—slightly acid, neutral

C horizon
Value—3 to 5 moist, 5 or 6 dry
Chroma—2 to 4 moist or dry
Texture—sand, sandy loam, loam
Clay content—0 to 15 percent
Gravel content—0 to 15 percent
Reaction—slightly acid, neutral

Cg horizon
Hue—7.5YR to 2.5Y, neutral
Value—2.5 to 4 moist, 5 or 6 dry
Chroma—0 to 2 moist, 1 to 3 dry
Texture—stratified fine sandy loam and coarse sand; stratified sandy loam and coarse sand; sand; sandy loam; fine sandy loam; loamy sand
Clay content—0 to 15 percent
Gravel content—0 to 55 percent
Cobble content—0 to 15 percent
Total rock fragment content—0 to 55 percent
Reaction—moderately acid to neutral

Fourmound Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Patterned ground mounds on basalt plateaus of channeled scablands
Parent material: Glaciofluvial deposits and loess mixed with a minor amount of volcanic ash over residuum derived from basalt

Slope range: 0 to 15 percent
Elevation: 1,800 to 2,600 feet
Average annual precipitation: 15 to 22 inches
Average annual air temperature: 46 to 52 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Coarse-loamy, isotic, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 4 inches; brown (10YR 4/3) gravelly ashy silt loam, very dark grayish brown (10YR 3/2) moist; strong fine and medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine and few fine and medium roots; many very fine, fine, and medium irregular pores; 15 percent subangular basalt gravel; slightly acid; diffuse smooth boundary.

A2—4 to 9 inches; brown (10YR 5/3) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine and few fine and medium roots; many very fine irregular pores and few fine tubular pores; 10 percent subangular basalt gravel; slightly acid; gradual smooth boundary.

A3—9 to 15 inches; yellowish brown (10YR 5/4) ashy silt loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; common very fine and few fine, medium, and coarse roots; many very fine irregular pores and few fine and medium tubular pores; 10 percent subangular basalt gravel; slightly acid; gradual wavy boundary.

Bw1—15 to 30 inches; yellowish brown (10YR 5/4) silt loam, brown (10YR 4/3) moist; weak fine and medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; few very fine, fine, and coarse and common medium roots; many very fine irregular pores and few fine and medium tubular pores; 10 percent subangular basalt gravel; slightly acid; gradual wavy boundary.

Bw2—30 to 43 inches; light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; moderately hard, friable, slightly sticky and slightly plastic; few very fine, fine, medium, and coarse roots; many very fine irregular pores and few very fine and fine tubular pores; 2 percent patchy faint organic stains; 10 percent subangular basalt gravel; moderately acid; diffuse wavy boundary.

2BC—43 to 47 inches; light yellowish brown (10YR 6/4) extremely gravelly silt loam, yellowish brown (10YR 5/4) moist; weak fine subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; few very fine and common fine roots matted around gravel; many very fine irregular pores and few fine tubular pores; 70 percent subangular basalt gravel; moderately acid; diffuse wavy boundary.

2R—47 inches; unweathered basalt.

Typical Pedon Location

Map unit in which located: Rockly-Fourmound complex, 0 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 4.5 miles west of Nine Mile Falls, Washington; about 1,700 feet south and 700 feet east of section 16, T. 26 N., R. 41 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—10 to 20 inches

Depth to bedrock—40 to 60 inches (lithic)
Clay content in particle-size control section—4 to 18 percent

An O horizon is in some pedons.

A horizon
Hue—7.5YR, 10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—3 or 4 dry, 1 to 3 moist
Texture—ashy silt loam in upper part, ashy silt loam or ashy loam in lower part
Clay content—4 to 18 percent
Gravel content—2 to 20 percent

Bw horizon
Hue—7.5YR, 10YR, 2.5Y
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam
Clay content—4 to 18 percent
Gravel content—2 to 20 percent
Reaction—moderately acid, slightly acid

2BC horizon, and 2C horizon (where present)
Hue—7.5YR, 10YR, 2.5YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam
Clay content—5 to 15 percent
Gravel content—35 to 80 percent
Cobble content—0 to 20 percent
Total rock fragment content—35 to 80 percent

In some pedons, the 2BC and 2C horizons also contain mixed glacial flood gravel.

Freeman Series

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Summits and backslopes of loess hills on basalt plateaus
Parent material: Loess with an influence of volcanic ash in the upper part over older loess
Slope range: 0 to 25 percent
Elevation: 2,400 to 2,660 feet
Average annual precipitation: 20 to 25 inches
Average annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Aquandic Palexeralfs (fig. 25)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 2 inches; pale brown (10YR 6/3) ashy silt loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure; slightly hard, friable, slightly

Figure 25.—Typical profile of a Freeman soil. Numerals on tape indicate inches.

sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; moderately acid; clear smooth boundary.

Ap2—2 to 9 inches; pale brown (10YR 6/3) ashy silt loam, brown (10YR 4/3) moist; weak medium subangular blocky structure parting to moderate medium platy; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and few fine tubular pores; strongly acid; clear smooth boundary.

E—9 to 15 inches; very pale brown (10YR 7/3) silt loam, yellowish brown (10YR 5/4) moist; weak medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; many very fine tubular pores and few fine irregular pores; slightly acid; abrupt smooth boundary.

Ec—15 to 21 inches; light gray (10YR 7/2) silt loam, brown (10YR 5/3) moist; weak medium angular blocky structure; hard, firm, nonsticky and slightly plastic; few very fine roots; common very fine irregular pores; 1 percent very fine prominent masses

of oxidized iron and 2 percent very fine prominent iron-manganese concretions; neutral; abrupt wavy boundary.

Btb/E—21 to 29 inches; 75 percent light yellowish brown (10YR 6/4) silty clay loam, yellowish brown (10YR 5/4) moist (Btb part); moderate medium subangular blocky structure; very hard, very firm, moderately sticky and moderately plastic; 10 percent distinct silt coatings and 20 percent distinct clay films on faces of peds; very pale brown (10YR 8/3) silt loam, very pale brown (10YR 7/3) moist (E part); very hard, very firm, slightly sticky and slightly plastic; 25 percent slightly brittle; few very fine roots; few very fine tubular pores and common very fine irregular pores; 2 percent fine prominent iron-manganese concretions, 2 percent fine prominent redoximorphic concentrations that are strong brown (7.5YR 5/6) moist, and 10 percent fine and medium prominent redoximorphic depletions that are grayish brown (2.5Y 5/2) moist; neutral; abrupt wavy boundary.

Btb1—29 to 39 inches; light yellowish brown (10YR 6/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; strong coarse angular blocky structure parting to strong medium angular blocky; very hard, very firm, moderately sticky and slightly plastic; few very fine roots between peds; few very fine tubular pores; 5 percent prominent organic stains, 20 percent distinct silt coatings, and 30 percent distinct clay films on faces of peds; 5 percent fine prominent iron-manganese concretions, 10 percent medium and coarse distinct redoximorphic depletions that are grayish brown (2.5Y 5/2) moist, and 5 percent medium prominent redoximorphic concentrations that are brown (7.5YR 5/3) moist; neutral; gradual wavy boundary.

Btb2—39 to 53 inches; light yellowish brown (10YR 6/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; strong coarse prismatic structure; very hard, very firm, very sticky and very plastic; few very fine roots between peds; few very fine tubular pores; 5 percent prominent organic stains, 10 percent distinct silt coatings, and 50 percent distinct clay films on faces of peds; 2 percent fine prominent iron-manganese concretions, 2 percent medium prominent redoximorphic concentrations that are brown (7.5YR 5/3) moist, and 5 percent medium distinct redoximorphic depletions that are light olive brown (2.5Y 5/3) moist; neutral; clear wavy boundary.

Btb3—53 to 62 inches; yellowish brown (10YR 5/4) silty clay loam, dark yellowish brown (10YR 3/4) moist; strong medium prismatic structure; very hard, very firm, very sticky and very plastic; few very fine roots between peds; few very fine tubular pores; 5 percent prominent organic stains, 20 percent faint silt coatings that are light gray (10YR 7/2) moist, and 80 percent prominent clay films on faces of peds; 2 percent fine prominent iron-manganese concretions; neutral.

Typical Pedon Location

Map unit in which located: Freeman ashy silt loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 4.5 miles southeast of the town of Freeman, Washington; about 1.2 miles south of Elder Road, on Harvard Road; about 190 feet west and 870 feet north of the southeast corner of section 9, T. 23 N., R. 45 E.

Range in Characteristics

Profile

Thickness of volcanic ash influence—7 to 10 inches

Depth to argillic horizon—15 to 30 inches

Depth to perched water table—14 to 21 inches in January through April

Depth to redoximorphic features—14 to 21 inches

Clay content—averages 20 to 35 percent in particle-size control section and 27 to 40 percent in lower part of argillic horizon

Ap horizon
Value—3 or 4 moist
Chroma—2 or 3 dry or moist
Clay content—15 to 18 percent
Reaction—strongly acid, moderately acid

E or Ec horizon
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 or 3 dry, 2 to 4 moist
Clay content—12 to 17 percent
Reaction—strongly acid to neutral

The E horizon coats peds in the upper part of the Btb horizon in some pedons.

Btb/E horizon
Hue—10YR, 2.5Y
Value—5 to 7 dry, 4 or 5 moist
Chroma—2 to 4 dry, 3 to 5 moist
Texture—silty clay loam, silt loam
Clay content—22 to 35 percent
Reaction—strongly acid to neutral

Btb horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 moist
Texture—silty clay loam, silty clay
Clay content—27 to 45 percent
Reaction—strongly acid to neutral

Garfield Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Shoulders, summits, and backslopes of loess hills
Parent material: Loess
Slope range: 3 to 35 percent
Elevation: 2,200 to 2,880 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine, mixed, superactive, mesic Mollic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Ap1—0 to 5 inches; very dark grayish brown (10YR 3/2) silt loam, brown (10YR 5/3) dry; weak fine granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine and common medium roots; many very fine and fine tubular pores; slightly acid (pH 6.2); abrupt wavy boundary.
Ap2—5 to 8 inches; very dark grayish brown (10YR 3/2) silt loam, brown (10YR 4/3) dry; weak fine subangular blocky structure; slightly hard, friable, slightly sticky

and slightly plastic; many very fine and fine roots; many very fine and fine tubular pores; slightly acid (pH 6.2); clear wavy boundary.

Btb1—8 to 19 inches; dark yellowish brown (10YR 4/4) silty clay loam, yellowish brown (10YR 5/4) dry; moderate coarse subangular blocky structure; very hard, extremely firm, moderately sticky and very plastic; few very fine roots between peds; common very fine and few fine tubular pores; 40 percent continuous distinct clay films that are dark yellowish brown (10YR 3/4) moist and on faces of peds; 5 percent fine moderately cemented manganese nodules in matrix; neutral (pH 6.9); gradual wavy boundary.

Btb2—19 to 32 inches; dark yellowish brown (10YR 4/4) silty clay, yellowish brown (10YR 5/4) dry; moderate coarse subangular blocky structure; hard, very firm, moderately sticky and very plastic; few very fine roots between peds; few very fine and fine tubular pores; 35 percent continuous distinct clay films that are dark brown (10YR 3/3) moist and on faces of peds; 5 percent fine moderately cemented manganese nodules in matrix; neutral (pH 7.0); gradual wavy boundary.

Btb3—32 to 45 inches; dark yellowish brown (10YR 4/4) silty clay loam, yellowish brown (10YR 5/4) dry; moderate medium prismatic structure parting to moderate coarse subangular blocky; moderately hard, firm, slightly sticky and moderately plastic; few very fine roots between peds; few very fine and fine tubular pores; 35 percent continuous distinct clay films that are dark brown (10YR 3/3) moist and on faces of peds; 2 percent fine moderately cemented manganese nodules in matrix; neutral (pH 7.0); gradual wavy boundary.

Btb4—45 to 60 inches; brown (10YR 4/3) silty clay loam, light yellowish brown (10YR 6/4) dry; moderate coarse prismatic structure parting to moderate coarse subangular blocky; moderately hard, firm, slightly sticky and moderately plastic; few very fine tubular pores; 35 percent continuous distinct clay films that are dark brown (10YR 3/3) moist and on faces of peds; 2 percent fine moderately cemented manganese nodules in matrix; neutral (pH 7.0).

Typical Pedon Location

Map unit in which located: Naff-Garfield complex, 3 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 2,850 feet south and 2,740 feet east of the northwest corner of section 6, T. 22 N., R. 44 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—0 to 8 inches
Clay content in particle-size control section—35 to 45 percent
Depth to bottom of argillic horizon—more than 40 inches

Ap horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry, 1 to 3 moist
Texture—silt loam, silty clay loam
Clay content—15 to 30 percent
Reaction—moderately acid to neutral

Btb1 and Btb2 horizons

Hue—7.5YR, 10YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, silty clay
Clay content—35 to 45 percent
Reaction—neutral to moderately alkaline

Btb3 and Btb4 horizons
Hue—7.5YR, 10YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—20 to 40 percent
Calcium carbonate content—0 to 2 percent
Reaction—neutral to moderately alkaline

Garrison Series

Depth class: Very deep
Drainage class: Somewhat excessively drained
Position on landscape: Outwash plains
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 30 percent
Elevation: 1,800 to 2,150 feet
Average annual precipitation: 18 to 24 inches
Average annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 4 inches; dark grayish brown (10YR 4/2) very gravelly ashy loam, very dark brown (10YR 2/2) moist; weak fine and medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine irregular pores; 35 percent gravel and 5 percent cobbles; neutral; abrupt smooth boundary.
A2—4 to 16 inches; dark grayish brown (10YR 4/2) very gravelly ashy loam, very dark brown (10YR 2/2) moist; weak medium and coarse subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and common fine roots; common fine irregular pores; 35 percent gravel and 5 percent cobbles; neutral; gradual wavy boundary.
Bw—16 to 24 inches; brown (10YR 5/3) very gravelly loam, dark brown (7.5YR 3/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine and common fine roots; common fine irregular pores; 40 percent gravel and 5 percent cobbles; neutral; diffuse wavy boundary.
C—24 to 60 inches; brown (10YR 5/3) extremely gravelly loamy coarse sand, dark brown (7.5YR 3/4) moist; single grain; loose, nonsticky and nonplastic; few very fine roots; many fine interstitial pores; 55 percent gravel, 10 percent cobbles, and 5 percent stones; slightly alkaline.

Typical Pedon Location

Map unit in which located: Garrison very gravelly ashy loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 5 miles east of Millwood, Washington; about 2,400 feet north and 2,750 feet east of the southwest corner of section 6, T. 25 N., R. 45 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—12 to 20 inches
Thickness of volcanic ash influence—12 to 20 inches
Depth to secondary carbonates—44 to 60 inches or more
Depth to sandy skeletal horizons—24 to 36 inches
Percentage of surface covered with rock fragments—0 to 15 percent stones of mixed origin, including siltite, argillite, gneiss, granite, and basalt
Rock fragment content—averages 35 to 70 percent in particle-size control section

A1 horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—10 to 18 percent
Gravel content—35 to 55 percent
Cobble content—0 to 10 percent
Stone content—0 to 5 percent
Reaction—moderately acid to neutral

A2 horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Texture—ashy loam, ashy silt loam
Clay content—10 to 18 percent
Gravel content—35 to 55 percent
Cobble content—0 to 20 percent
Stone content—0 to 15 percent
Total rock fragment content—35 to 55 percent
Reaction—moderately acid to neutral

Bw horizon
Hue—7.5YR, 10YR
Value—4 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—loam, sandy loam, coarse sandy loam
Clay content—5 to 15 percent
Gravel content—35 to 60 percent
Cobble content—0 to 35 percent
Stone content—0 to 35 percent
Total rock fragment content—35 to 75 percent
Reaction—slightly acid to neutral

C horizon
Hue—7.5YR, 10YR, 2.5Y
Value—5 to 7 dry, 3 to 6 moist
Chroma—3 to 5 dry or moist
Texture—sand, coarse sand, loamy coarse sand; stratified in some pedons
Clay content—0 to 5 percent
Gravel content—30 to 75 percent
Cobble content—5 to 20 percent
Stone content—0 to 25 percent
Total rock fragment content—40 to 85 percent
Reaction—slightly acid to slightly alkaline

Content of calcium carbonate and silica coatings—0 to 15 percent, on underside of rock fragments

Gibbs Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes and summits of basalt plateaus
Parent material: Colluvium and residuum derived from basalt and a minor amount of glaciofluvial deposits, loess, and volcanic ash in the upper part
Slope range: 0 to 15 percent
Elevation: 1,900 to 2,600 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-loamy, isotic, mesic Vitrandic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, twigs, and leaves mixed with 1980's Mount St. Helens volcanic ash.
A—1 to 5 inches; brown (10YR 4/3) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium roots; many very fine and fine tubular pores and many fine irregular pores; neutral; clear wavy boundary.
AB—5 to 13 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; moderate coarse subangular blocky structure; hard, firm, slightly sticky and slightly plastic; common very fine and fine and few medium roots; common very fine and fine tubular pores; neutral; clear wavy boundary.
Bt1—13 to 20 inches; yellowish brown (10YR 5/3) silty clay loam, dark brown (10YR 3/3) moist; moderate coarse subangular blocky structure; very hard, firm, slightly sticky and moderately plastic; common very fine, fine, and medium roots; common very fine and few fine tubular pores; 10 percent faint clay films on faces of peds; 2 percent gravel; slightly acid; gradual wavy boundary.
Bt2—20 to 31 inches; yellowish brown (10YR 5/4) silty clay loam, dark yellowish brown (10YR 3/4) moist; moderate medium and coarse subangular blocky structure; very hard, firm, slightly sticky and moderately plastic; few very fine, fine, and medium roots; common very fine and few fine tubular pores; 25 percent faint clay films on faces of peds; 5 percent gravel; neutral; clear wavy boundary.
BCt—31 to 35 inches; yellowish brown (10YR 5/4) very gravelly silt loam, dark yellowish brown (10YR 3/4) moist; weak medium subangular blocky structure; very hard, very firm, slightly sticky and moderately plastic; few very fine, fine, and medium roots; few very fine and fine tubular pores; 20 percent faint clay films on faces of peds; 30 percent gravel and 20 percent cobbles; neutral; abrupt wavy boundary.
2R—35 inches; unweathered basalt that has fractures 4 to 18 inches apart; about 1 inch thick weathering rinds in fractures.

Typical Pedon Location

Map unit in which located: Gibbs ashy silt loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 1.25 miles southwest of Mica Washington; about 800 feet west and 1,960 feet south of the northeast corner of section 28, T. 24 N., R. 44 E.

Range in Characteristics

Profile
Depth to bedrock—20 to 40 inches (lithic)
Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—7 to 14 inches
Reaction—slightly acid, neutral
Clay content in particle-size control section—18 to 30 percent
Rock fragment content in particle-size control section—averages less than 35 percent

A horizon, or Ap horizon (where present)
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—12 to 18 percent
Gravel content—0 to 5 percent

AB horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—16 to 22 percent
Gravel content—0 to 5 percent

Bt horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 to 6 dry or moist
Texture—silt loam, loam, silty clay loam
Clay content—18 to 30 percent
Gravel content—0 to 10 percent

BCt or C horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—4 or 6 dry or moist
Texture—silt loam, loam, silty clay loam
Gravel content—30 to 60 percent
Cobble content—0 to 25 percent
Total rock fragment content—35 to 75 percent

Glenrose Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits, shoulders, and backslopes of hills
Parent material: Loess mixed with a minor amount of volcanic ash over material derived from saprolitic gneiss, quartzite, or Latah Formation
Slope range: 0 to 25 percent
Elevation: 2,200 to 2,900 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-loamy, isotic, mesic Vitrandic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 8 inches; brown (10YR 5/3) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular and irregular pores; moderately acid; clear smooth boundary.

AB—8 to 14 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 3/3) moist; weak coarse subangular blocky structure; hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular and irregular pores; slightly acid; clear wavy boundary

Bw—14 to 19 inches; yellowish brown (10YR 5/4) silt loam, brown (10YR 4/3) moist; weak medium and coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; common very fine and fine tubular pores; 15 percent distinct clay films on faces of peds; slightly acid; clear wavy boundary.

Bt/E—19 to 24 inches; 85 percent dark yellowish brown (10YR 4/4) silty clay loam, brown (10YR 4/3) moist (Bt part); moderate medium subangular blocky structure; hard, firm, slightly sticky and moderately plastic; 60 percent distinct clay films on faces of peds; 15 percent pale brown (10YR 6/3) silty clay loam, brown (10YR 5/3) moist (E part); moderate medium subangular blocky structure; hard, firm, slightly sticky and moderately plastic; few very fine roots; common very fine tubular pores; 2 percent fine gravel; neutral; clear wavy boundary.

Bt1—24 to 32 inches; yellowish brown (10YR 5/4) silty clay loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, moderately sticky and moderately plastic; few very fine roots; common very fine tubular pores; 15 percent distinct silt coatings on faces of peds and 50 percent distinct clay films on faces of peds; 5 percent gravel; neutral; gradual wavy boundary.

Bt2—32 to 41 inches; yellowish brown (10YR 5/6) clay loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; hard, firm, moderately sticky and moderately plastic; few very fine roots; common very fine tubular pores; 10 percent distinct silt coatings on faces of peds and 30 percent distinct clay films on faces of peds; 5 percent gravel; neutral; gradual wavy boundary.

Bt3—41 to 60 inches; yellowish brown (10YR 5/6) clay loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; hard, firm, moderately sticky and moderately plastic; common very fine tubular and irregular pores; 25 percent faint clay films on faces of peds; 10 percent gravel; neutral.

Typical Pedon Location

Map unit in which located: Glenrose ashy silt loam, 8 to 25 percent slopes

Location in survey area: Spokane County, Washington, about 2 miles east of Mica, Washington; about 610 feet east and 905 feet south of the northwest corner of section 19, T. 24 N., R. 45 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 20 inches

Thickness of volcanic ash influence—7 to 14 inches

Clay content in particle-size control section—18 to 34 percent

Percentage of surface covered with cobbles—0.0 to 0.1 percent

Ap horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—14 to 18 percent
Gravel content—0 to 10 percent
Cobble content—0 to 15 percent
Reaction—moderately acid, slightly acid

AB horizon
Value—4 or 5 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—14 to 18 percent
Gravel content—0 to 10 percent
Reaction—moderately acid to neutral

Bw horizon
Value—5 to 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, loam
Clay content—16 to 20 percent
Fine gravel content—0 to 15 percent
Reaction—slightly acid, neutral

Bt/E horizon
Hue—10YR, 7.5YR, 5YR
Value—4 to 7 dry, 3 to 5 moist
Chroma—3 to 5 dry or moist
Texture—silty clay loam, clay loam, loam
Clay content—18 to 30 percent
Gravel content—0 to 15 percent
Reaction—slightly acid, neutral

Bt horizon
Value—4 to 7 dry, 3 to 5 moist
Chroma—3 to 6 dry or moist
Texture—silty clay loam, clay loam, loam
Clay content—22 to 28 percent in upper part, 28 to 34 percent in lower part
Gravel content—0 to 15 percent
Reaction—slightly acid, neutral

Green Bluff Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Outwash plains on basalt plateaus
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 0 to 15 percent
Elevation: 1,900 to 2,400 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Coarse-loamy, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 7 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 4/2) moist; weak very thin platy structure and weak fine granular; slightly hard, very friable, slightly sticky and slightly plastic; many fine and medium roots; few fine tubular and irregular pores; 5 percent gravel; slightly acid; abrupt smooth boundary.

E and Bt1—7 to 17 inches; pale brown (10YR 6/3) ashy silt loam, brown (10YR 4/3) moist (E part); few fine faint organic stains that are brown (7.5YR 4/4) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; two irregular wavy continuous 1/4-inch-thick lamellae that are dark yellowish brown (10YR 4/4) moist (Bt part); many fine roots; many fine tubular and irregular pores; 5 percent gravel; neutral; abrupt smooth boundary.

E and Bt2—17 to 29 inches; light gray (10YR 7/2) and very pale brown (10YR 7/3) silt loam, dark brown (10YR 3/3) moist (E part); common faint organic stains that are brown (7.5YR 5/4) moist; weak fine and medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; three irregular wavy continuous 1-inch-thick horizontal bands of lamellae that are dark brown (10YR 4/3) moist and have 10 percent distinct clay films in pores and on surfaces of peds; few fine roots; many fine tubular and irregular pores; 10 percent gravel; neutral; gradual wavy boundary.

E and Bt3—29 to 55 inches; pale brown (10YR 6/3) gravelly loam, brown (10YR 4/3) moist (E part); moderate fine subangular blocky structure; hard, firm, moderately sticky and moderately plastic; three 1/2-inch-thick lamellae that are light brownish gray (10YR 4/2) and brown (7.5YR 4/3) moist (Bt part) and have 20 percent distinct clay films in pores and on faces of peds; few fine roots; many fine tubular and irregular pores; 15 percent rounded gravel and 2 percent subrounded cobbles; neutral; abrupt wavy boundary.

C—55 to 60 inches; pale brown (10YR 6/3) fine sandy loam, brown (10YR 4/3) moist; massive; hard, firm, moderately sticky and moderately plastic; thin layers of sandy material 1/4 to 1/2 inch thick; discontinuous bands of lamellae 1/2 to 1 inch thick with 2 percent faint clay films in pores and root channels; very few fine roots; 2 percent brown (10YR 4/3) medium organic stains; few fine and medium tubular and irregular pores; 5 percent gravel; neutral.

Typical Pedon Location

Map unit in which located: Green Bluff ashy silt loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 3.5 miles east of Colbert, Washington; about 1,000 feet south and 400 feet west of the northeast corner of section 20, T. 27 N., R. 44 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—5 to 9 inches
Thickness of volcanic ash influence—7 to 14 inches
Rock fragment content—0 to 20 percent in particle-size control section
Clay content in particle-size control section—5 to 15 percent
Reaction—slightly acid, neutral
Total combined thickness of lamellae—less than 6 inches

Ap horizon

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—2 or 3 dry or moist
Clay content—5 to 12 percent

E and Bt1 horizon
E part (90 to 95 percent of horizon):
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy loam, ashy silt loam
Gravel content—0 to 10 percent
Cobble content—0 to 5 percent
Total rock fragment content—0 to 10 percent

Bt part (5 to 10 percent of horizon):
Value—4 or 5 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist

E and Bt2 horizon and E and Bt3 horizon
E part (90 to 95 percent of horizon):
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—loam, silt loam
Gravel content—0 to 15 percent
Cobble content—0 to 5 percent
Total rock fragment content—0 to 20 percent

Bt part (5 to 10 percent of horizon):
Value—4 to 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist

C horizon
Hue—10YR, 2.5Y
Value—5 to 7 dry, 2 to 5 moist
Chroma—3 or 4 moist or dry
Texture—silt loam, loam, fine sandy loam
Gravel content—5 to 15 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 15 percent

Hagen Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash terraces
Parent material: Sandy glaciofluvial deposits mixed with a minor amount of loess and volcanic ash in the upper part
Slope range: 0 to 25 percent
Elevation: 1,800 to 2,400 feet
Average annual precipitation: 18 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Sandy, isotic, mesic Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 7 inches; brown (10YR 5/3) ashy sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; slightly hard, very friable, nonsticky and

nonplastic; many very fine and fine roots; common very fine irregular pores; slightly acid; abrupt wavy boundary.

Bw—7 to 15 inches; brown (10YR 6/3) ashy sandy loam, pale brown (10YR 4/3) moist; weak fine subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; many very fine and fine and few medium roots; common very fine irregular pores; slightly acid; gradual smooth boundary.

E and Bt1—15 to 29 inches; pale brown (10YR 6/3) loamy sand, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; few discontinuous wavy bands of yellowish brown (10YR 5/4) loamy sand, dark yellowish brown (10YR 4/4) moist (Bt part); common very fine and fine and few medium roots; common very fine irregular pores; 1 percent gravel; neutral; gradual wavy boundary.

E and Bt2—29 to 52 inches; light yellowish brown (10YR 6/4) loamy sand, dark yellowish brown (10YR 4/4) moist; single grain; loose, nonsticky and nonplastic; many $^{3}/_{16}$-inch-thick continuous wavy bands of dark yellowish brown (10YR 4/6) loamy sand, dark yellowish brown (10YR 4/4) moist (Bt part); common very fine and fine roots; common very fine interstitial pores; neutral; gradual wavy boundary.

C—52 to 60 inches; light yellowish brown (10YR 6/4) sand, dark yellowish brown (10YR 4/4) moist; single grain; loose, nonsticky and nonplastic; few very fine roots; common very fine interstitial pores; neutral.

Typical Pedon Location

Map unit in which located: Hagen ashy sandy loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 1.25 miles north of Dartford, Washington; about 300 feet north and 2,550 feet east of the southwest corner of section 30, T. 27 N., R. 43 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—4 to 8 inches
Thickness of volcanic ash influence—7 to 20 inches
Depth to sand or loamy sand—15 to 20 inches
Reaction—slightly acid or neutral throughout

A horizon

Value—5 or 6 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—4 to 10 percent
Gravel content—0 to 5 percent

Bw horizon (where present)

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy fine sandy loam
Clay content—4 to 10 percent
Gravel content—0 to 5 percent

E and Bt horizon

E part (90 to 95 percent of horizon):
Hue—10YR, 2.5Y
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy sand, sand
Clay content—0 to 5 percent
Gravel content—0 to 10 percent

Bt part (5 to 10 percent of horizon):
Value—4 to 6 dry, 4 or 5 moist
Chroma—4 or 6 dry or moist
Texture—sandy loam, loamy sand
Clay content—4 to 10 percent
Total thickness of lamellae—less than 6 inches

C horizon
Hue—10YR, 2.5Y, variegated
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 moist or dry
Texture—loamy sand, sand
Clay content—0 to 5 percent
Gravel content—0 to 10 percent

Hanning Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes, shoulders, and footslopes of loess hills on basalt plateaus
Parent material: Loess
Slope range: 8 to 60 percent
Elevation: 2,200 to 2,690 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Pachic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 9 inches; dark gray (10YR 4/1) silt loam, black (10YR 2/1) moist; weak coarse subangular blocky structure parting to weak medium granular; very friable, soft, slightly sticky and slightly plastic; many very fine roots; many very fine irregular pores; moderately acid; abrupt wavy boundary.

A—9 to 17 inches; dark grayish brown (10YR 4/2) silt loam, black (10YR 2/1) moist; moderate fine prismatic structure parting to moderate medium subangular blocky; very friable, soft, slightly sticky and moderately plastic; many very fine roots; many very fine dendritic tubular pores; moderately acid; clear wavy boundary.

AB—17 to 24 inches; grayish brown (10YR 5/2) silt loam, very dark gray (10YR 3/1) moist; moderate medium prismatic structure parting to moderate fine subangular blocky; very friable, soft, slightly sticky and moderately plastic; many very fine roots; common medium irregular pores and many very fine dendritic tubular pores; neutral; clear wavy boundary.

Bt1—24 to 35 inches; brown (10YR 5/3) silt loam, very dark grayish brown (10YR 3/2) moist; moderate medium prismatic structure; very friable, soft, moderately sticky and moderately plastic; many very fine roots; common medium irregular pores and many very fine dendritic tubular pores; 10 percent distinct clay films on faces of peds; neutral; clear wavy boundary.

Bt2—35 to 45 inches; yellowish brown (10YR 5/4) silt loam, brown (10YR 4/3) moist; moderate medium prismatic structure; friable, slightly hard, moderately sticky and moderately plastic; common very fine roots; many very fine irregular

pores; 20 percent distinct clay films on faces of peds; neutral; clear wavy boundary.

Bt3—45 to 63 inches; yellowish brown (10YR 5/4) silt loam, brown (10YR 4/3) moist; moderate medium prismatic structure; friable, slightly hard, moderately sticky and moderately plastic; common very fine roots; many very fine dendritic tubular pores and common very fine irregular pores; 5 percent faint silt coatings and 30 percent distinct clay films on faces of peds; neutral.

Typical Pedon Location

Map unit in which located: Hanning silt loam, 8 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 1,770 feet north and 2,090 feet east of the southwest corner of section 11, T. 22 N., R. 40 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—20 to 35 inches
Depth to argillic horizon—20 to 40 inches
Clay content in particle-size control section—18 to 27 percent

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Texture—silt loam
Clay content—10 to 18 percent
Reaction—moderately acid, slightly acid

Bt horizon
Value—4 to 6 dry, 3 or 4 moist
Chroma—2 to 4 moist or dry

AB horizon
Absent in some pedons

An E horizon is above the Bt horizon in some pedons

Haploxerolls

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Treads of stream terraces
Parent material: Mixed alluvium
Slope range: 0 to 8 percent
Elevation: 1,540 to 2,400 feet
Average annual precipitation: 17 to 21 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Haploxerolls

Representative Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 4 inches; grayish brown (10YR 5/2) ashy silt loam, very dark gray (10YR 3/1) moist; moderate very thick platy structure parting to moderate fine subangular blocky; friable, slightly hard, slightly sticky and slightly plastic; common fine and medium and many very fine roots throughout; common very fine tubular pores; neutral; clear smooth boundary.

A2—4 to 14 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak very thick platy structure parting to moderate medium subangular blocky; very friable, slightly hard, slightly sticky and slightly plastic; few fine and common very fine roots throughout; common very fine tubular pores; neutral; clear smooth boundary.

A3—14 to 30 inches; brown (10YR 5/3) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak very thick platy structure parting to moderate medium subangular blocky; friable, slightly hard, slightly sticky and slightly plastic; few fine and common very fine roots throughout; common very fine tubular pores; neutral; clear smooth boundary.

A4—30 to 40 inches; brown (10YR 5/3) silt loam, very dark grayish brown (10YR 3/2) moist; moderate very thick platy structure parting to moderate medium subangular blocky; very friable, slightly hard, slightly sticky and slightly plastic; few fine and common very fine roots throughout; common very fine tubular pores; slightly alkaline; abrupt smooth boundary.

Ab1—40 to 57 inches; brown (10YR 5/3) silt loam, very dark grayish brown (10YR 3/2) moist; moderate very thick platy structure parting to moderate medium subangular blocky structure; friable, slightly hard, slightly sticky and slightly plastic; few fine and common very fine roots throughout; common very fine tubular pores; 10 percent fine and medium distinct masses of oxidized iron that are dark brown (7.5YR 3/4) moist and are along pores and on faces of peds; slightly alkaline; abrupt wavy boundary.

Ab2—57 to 60 inches; grayish brown (10YR 5/2) fine sandy loam, very dark grayish brown (10YR 3/2) moist; massive; very friable, slightly hard, nonsticky and nonplastic; common very fine roots throughout; many very fine irregular pores and few very fine tubular pores; neutral.

Representative Pedon Location

Map unit in which located: Haploxerolls ashy silt loam, channeled, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 1,200 feet south of the intersection of Hangman Valley and Pinehill Roads; about 2,350 feet north and 800 feet east of the southwest corner of section 21, T. 24 N., R. 43 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—20 to 60 inches
Thickness of volcanic ash influence—4 to 30 inches
Depth to apparent water table—40 to 50 inches in February through May
Depth to redoximorphic concentrations—40 to 60 inches
Reaction—neutral, slightly alkaline

A1 and A2 horizons

Value—4 to 5 dry, 2 or 3 moist
Chroma—1 to 3 moist or dry
Texture—ashy silt loam, ashy fine sandy loam, loam, silt loam
Clay content—10 to 20 percent
Gravel content—0 to 10 percent

A3 and A4 horizons

Value—4 to 6 dry, 2 to 4 moist
Chroma—2 to 4 moist or dry
Texture—ashy fine sandy loam, fine sandy loam, loam, sandy loam, silt loam
Clay content—5 to 18 percent
Gravel content—0 to 30 percent

Cobble content—0 to 10 percent
Total rock fragment content—0 to 30 percent

Ab horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 moist or dry
Texture—fine sandy loam, loam, sandy loam, silt loam
Clay content—3 to 18 percent
Gravel content—0 to 30 percent
Cobble content—0 to 10 percent
Total rock fragment content—0 to 30 percent

A C horizon is in some pedons.

Hardesty Series

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Depressions of channeled scablands, stream terraces, drainageways
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Elevation: 1,900 to 2,450 feet
Average annual precipitation: 15 to 25 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Ashy, glassy, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 4 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; moderate thin platy structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots throughout; many very fine and fine irregular pores; slightly acid; abrupt smooth boundary.
A2—4 to 11 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 3/3) moist; weak medium platy structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine roots throughout; many very fine and fine irregular pores; slightly acid; clear smooth boundary.
Bw1—11 to 23 inches; pale brown (10YR 6/3) ashy silt loam, brown (10YR 4/3) moist; moderate thick platy structure parting to weak medium subangular blocky; soft, friable, slightly sticky and slightly plastic; common very fine and fine roots throughout; many very fine and few fine irregular pores; few medium distinct brown (7.5YR 4/4) masses of iron-manganese accumulation in matrix; neutral; clear wavy boundary.
Bw2—23 to 32 inches; very pale brown (10YR 7/3) ashy silt loam, brown (10YR 5/3) moist; moderate thick platy structure parting to weak medium subangular blocky; soft, very friable, slightly sticky and slightly plastic; common very fine and fine roots; many very fine and fine irregular pores; common medium distinct brown (7.5YR 4/4) masses of iron-manganese accumulation in matrix; neutral; abrupt wavy boundary.
C1—32 to 39 inches; very pale brown (10YR 7/4) ashy very fine sandy loam, yellowish brown (10YR 5/4) moist; massive; soft, friable, nonsticky and nonplastic; common

very fine and fine roots; few fine irregular pores; few medium distinct brown (7.5YR 4/4) masses of iron-manganese accumulation in matrix; neutral; abrupt wavy boundary.

C2—39 to 60 inches; very pale brown (10YR 8/3) ashy loamy very fine sand, pale brown (10YR 6/3) moist; massive; soft, friable, nonsticky and nonplastic; few very fine and fine roots; few fine irregular pores; coarsely laminated with thin wavy bands that are brown (7.5YR 4/4) moist; neutral.

Typical Pedon Location

Map unit in which located: Hardesty ashy silt loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 3 miles south of the community of Greenacres, Washington; about 2,600 feet west and 1,800 feet south of the northeast corner of section 35, T. 25 N., R. 44 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 15 inches
Depth to apparent water table—23 to 30 inches in February
Depth to redoximorphic features—20 to 60 inches
Volcanic glass content—more than 60 percent in particle-size control section
Reaction—slightly acid, neutral

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—10 to 15 percent
Gravel content—0 to 5 percent

Bw horizon

Value—6 or 7 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Texture—ashy silt loam, ashy very fine sandy loam
Clay content—5 to 15 percent
Gravel content—0 to 10 percent

C horizon

Value—6 to 8 dry, 4 to 6 moist
Chroma—2 to 4 dry or moist
Texture—ashy loamy very fine sand, ashy silt, ashy silt loam, ashy very fine sandy loam
Clay content—0 to 5 percent
Gravel content—0 to 10 percent

Hoodoo Taxadjunct

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Flood plains
Parent material: Alluvium derived from volcanic ash mixed with loess in the upper part
Slope range: 0 to 3 percent
Elevation: 1,600 to 2,500 feet
Average annual precipitation: 18 to 32 inches
Average annual air temperature: 42 to 46 degrees F
Frost-free period: 80 to 110 days

Taxonomic class: Ashy, glassy, nonacid, frigid Aquandic Humaquepts (fig. 26)

Taxadjunct Features

The Hoodoo soils in this survey area are a taxadjunct to the series because they do not have andic soil properties. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Figure 26.—Typical profile of a Hoodoo soil. Numerals on tape indicate centimeters.

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Ap—0 to 10 inches; very dark grayish brown (10YR 3/2) ashy silt loam, grayish brown (10YR 5/2) dry; weak medium subangular blocky structure parting to moderate medium granular; soft, friable, slightly sticky and slightly plastic; slightly fluid; many very fine and fine roots; many very fine and fine tubular and irregular pores; 2 percent fine distinct dark yellowish brown (10YR 4/6) masses of oxidized iron on faces of peds; slightly acid; 15 percent fine light gray (10YR 7/2) pockets of ash; abrupt wavy boundary.

Bg1—10 to 18 inches; grayish brown (10YR 5/2) ashy silt loam, light gray (10YR 7/2) dry; moderate medium subangular blocky structure; soft, friable, nonsticky and nonplastic; moderately fluid; common very fine and fine roots; many very fine and fine irregular pores; 5 percent dark brown (10YR 3/3) organic stains; 5 percent fine distinct dark yellowish brown (10YR 4/6) masses of oxidized iron on faces of peds; neutral; gradual wavy boundary.

Bg2—18 to 23 inches; grayish brown (10YR 5/2) ashy silt loam, light gray (2.5Y 7/2) dry; weak medium subangular blocky structure; soft, friable, nonsticky and nonplastic; moderately fluid; few fine roots; common very fine and fine irregular pores; organic stains that are dark brown (10YR 3/3) moist; 10 percent fine distinct dark yellowish brown (10YR 4/6) masses of oxidized iron on faces of peds; neutral; clear wavy boundary.

Cg1—23 to 40 inches; grayish brown (10YR 5/2) ashy silt loam, light gray (2.5Y 7/2) dry; 20 percent medium distinct yellowish brown (10YR 5/4) mottles; massive; soft, very friable, nonsticky and nonplastic; moderately fluid; few fine roots; few very fine irregular pores; 2 percent very dark grayish brown (10YR 3/2) organic stains; 15 percent fine prominent strong brown (7.5YR 4/6) masses of oxidized iron in matrix; neutral; mottles consisting of platy laminations between layers; gradual wavy boundary.

Cg2—40 to 52 inches; light brownish gray (2.5Y 6/2) ashy silt loam, white (2.5Y 8/1) dry; 15 percent medium prominent yellowish brown (10YR 5/4) mottles; massive; soft, very friable, nonsticky and nonplastic; moderately fluid; few very fine roots; few very fine irregular pores; 15 percent fine prominent strong brown (7.5YR 4/6) masses of oxidized iron in matrix; neutral; mottles consisting of platy laminations between layers; gradual wavy boundary.

Cg3—52 to 60 inches; light brownish gray (2.5Y 6/2) ashy silt loam, white (2.5Y 8/1) dry; 10 percent medium prominent yellowish brown (10YR 5/4) mottles; massive; soft, very friable, nonsticky and nonplastic; moderately fluid; few very fine roots; few very fine irregular pores; 20 percent fine prominent strong brown (7.5YR 4/6) masses of oxidized iron in matrix; slightly acid; mottles consisting of platy laminations between layers.

Typical Pedon Location

Map unit in which located: Hoodoo ashy silt loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 2 miles north of Moab, Washington; about 2,470 feet east and 935 feet south of the northwest corner of section 14, T. 26 N., R. 45 E.

Range in Characteristics

Profile

Thickness of umbric epipedon—10 to 15 inches

Thickness of loess influence—10 to 20 inches

Depth to apparent water table—soil surface to a depth of 18 inches in January through May, more than 18 inches in June through December
Depth to redoximorphic features—10 to 20 inches

A horizon
Hue—10YR, 2.5Y
Value—2 or 3 moist, 4 or 5 dry
Chroma—1 or 2 moist or dry
Clay content—6 to 12 percent
Reaction—moderately acid, slightly acid

Bg horizon
Hue—10YR, 2.5Y
Value—4 to 7 moist, 6 to 8 dry
Chroma—1 or 2 moist or dry
Texture—ashy very fine sandy loam, ashy silt loam
Clay content—4 to 10 percent
Reaction—slightly acid, neutral

Cg horizon
Hue—10YR, 2.5Y
Value—5 to 7 moist, 6 to 8 dry
Chroma—1 or 2 moist or dry
Texture—ashy very fine sandy loam, ashy silt loam
Clay content—4 to 8 percent
Reaction—slightly acid, neutral

Huckle Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes and shoulders of mountains
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from siltite and fine-grained quartzite
Slope range: 35 to 65 percent
Elevation: 2,810 to 4,300 feet
Average annual precipitation: 28 to 35 inches
Average annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Ashy over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 2 inches; slightly decomposed needles, leaves, twigs, cones, and bark.
Oe—2 to 3 inches; decomposed organic matter mixed with 1980's Mount St. Helens volcanic ash.
A—3 to 4 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak very fine and fine granular structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and common medium and coarse roots; many very fine and fine and common medium tubular pores; 10 percent gravel; neutral; abrupt wavy boundary.
Bw1—4 to 8 inches; yellowish brown (10YR 5/4) ashy silt loam, dark yellowish brown (10YR 3/4) moist; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and common medium

and coarse roots; many very fine and fine and common medium tubular pores; 10 percent gravel; neutral; gradual wavy boundary.

Bw2—8 to 13 inches; light yellowish brown (10YR 6/4) ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and common medium and coarse roots; many very fine and fine and common medium tubular pores; 10 percent gravel; neutral; gradual wavy boundary.

Bw3—13 to 19 inches; light yellowish brown (10YR 6/4) gravelly ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine and common medium tubular pores; 15 percent gravel; slightly acid; abrupt wavy boundary.

2Bw4—19 to 28 inches; pale brown (10YR 6/3) very cobbly silt loam, brown (10YR 4/3) moist; weak medium and coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine and few medium and coarse tubular pores; 15 percent gravel and 35 percent cobbles; neutral; clear wavy boundary.

2BC—28 to 38 inches; very pale brown (10YR 8/4) extremely cobbly silt loam, light yellowish brown (10YR 6/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; common very fine and fine and few medium and coarse tubular pores; 20 percent gravel, 40 percent cobbles, and 3 percent fine paragravel; slightly acid; gradual wavy boundary.

2C—38 to 47 inches; yellow (10YR 8/6) extremely cobbly loam, brownish yellow (10YR 6/6) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; common very fine and fine and few medium and coarse tubular pores; 20 percent gravel, 40 percent cobbles, 5 percent stones, and 10 percent fine paragravel; slightly acid; clear wavy boundary.

2Cr—47 inches; weathered, fractured siltite.

Typical Pedon Location

Map unit in which located: Ardenvoir-Huckle association, 35 to 65 percent slopes

Location in survey area: Benewah County, Idaho, about 4.5 miles southeast of Plummer; about 1,650 feet north and 1,750 feet west of the southeast corner of section 26, T. 46 N., R. 4 W.

Range in Characteristics

Profile

Depth to bedrock—40 to 60 inches (paralithic)
Thickness of volcanic ash mantle—14 to 24 inches

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam
Clay content—5 to 10 percent
Gravel content—0 to 20 percent
Reaction—slightly acid, neutral

Bw horizon

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist

Texture—ashy silt loam
Clay content—5 to 10 percent
Gravel content—0 to 20 percent
Reaction—slightly acid, neutral

2Bw horizon
Hue—10YR, 7.5YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, loam
Clay content—5 to 15 percent
Gravel content—15 to 40 percent
Cobble content—0 to 50 percent
Total rock fragment content—35 to 60 percent
Reaction—moderately acid to neutral

2BC horizon (where present)
Hue—10YR, 7.5YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, loam, fine sandy loam
Clay content—5 to 15 percent
Gravel content—15 to 40 percent
Cobble content—5 to 45 percent
Paragravel content—0 to 5 percent
Total rock fragment content—35 to 75 percent
Reaction—moderately acid, slightly acid

2C horizon
Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 to 6 dry or moist
Texture—loam, silt loam, fine sandy loam
Clay content—5 to 15 percent
Gravel content—10 to 30 percent
Cobble content—15 to 50 percent
Stone content—0 to 10 percent
Paragravel content—0 to 10 percent
Total rock fragment content—40 to 80 percent
Reaction—moderately acid, slightly acid

Hunters Taxadjunct

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads on relict glacial lake terraces
Parent material: Loess mixed with a minor amount of volcanic ash over calcareous glaciolacustrine deposits
Slope range: 0 to 8 percent
Elevation: 1,800 to 1,900 feet
Average annual precipitation: 18 to 20 inches
Average annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Coarse-silty, mixed, superactive, mesic Vitrandic Haploxerolls

Taxadjunct Features

The Hunters soils in this survey area are a taxadjunct to the series because the particle-size control section is coarse-silty. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 6 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, friable, nonsticky and slightly plastic; common very fine and fine roots; many fine tubular pores and many very fine interstitial pores; moderately acid; clear smooth boundary.

A—6 to 14 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; soft, friable, nonsticky and slightly plastic; few very fine and fine roots; common very fine interstitial and dendritic tubular pores; slightly acid; abrupt smooth boundary.

Bw—14 to 26 inches; light brownish gray (10YR 6/2) silt loam, dark grayish brown (10YR 4/2) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine and fine roots; common very fine tubular pores; neutral; gradual smooth boundary.

Bk1—26 to 36 inches; pale brown (10YR 6/3) silt loam, brown (10YR 4/3) moist; weak medium angular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine and fine roots; common very fine tubular pores; very slightly effervescent; neutral; clear smooth boundary.

Bk2—36 to 46 inches; light yellowish brown (2.5Y 6/3) silt, olive brown (2.5Y 4/3) moist; weak medium angular blocky structure parting to moderate thin platy; slightly hard, friable, nonsticky and slightly plastic; plates very slightly brittle; few very fine roots; few very fine tubular pores; 25 percent discontinuous distinct pale yellow (2.5Y 8/2) carbonate coatings on lower surface of peds; very slightly effervescent; slightly alkaline; clear smooth boundary.

Bk3—46 to 55 inches; pale yellow (2.5Y 7/3) silt, light olive brown (2.5Y 5/3) moist; strong thick platy structure; slightly hard, friable, nonsticky and slightly plastic; plates very slightly brittle; few very fine roots in cracks; few very fine interstitial pores; 50 percent discontinuous distinct pale yellow (2.5Y 8/2) carbonate coatings on lower surface of peds; strongly effervescent; moderately alkaline; clear wavy boundary.

Bk4—55 to 64 inches; pale yellow (2.5Y 8/2) silt, light brownish gray (2.5Y 6/2) moist; strong thick platy structure parting to moderate thin platy; slightly hard, friable, nonsticky and slightly plastic; plates very slightly brittle; few very fine interstitial pores; 10 percent discontinuous distinct white (2.5Y 8/1) carbonate coatings on lower surface of peds; violently effervescent; moderately alkaline.

Typical Pedon Location

Map unit in which located: Hunters ashy silt loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 0.2 mile south of State Route 206 on Feryn's Farm road; about 790 feet east and 975 feet south of the northwest corner of section 5, T. 26 N., R. 44 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 18 inches

Thickness of loess and volcanic ash influence—7 to 18 inches

Depth to secondary calcium carbonates—18 to 34 inches

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Reaction—moderately acid, slightly acid

Bw horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 to 4 moist or dry
Reaction—slightly acid, neutral

Bk horizon
Hue—10YR, 2.5Y
Value—5 to 8 dry, 4 to 6 moist
Chroma—2 to 4 dry or moist
Texture—silt, silt loam, very fine sandy loam
Gravel—0 to 5 percent
Reaction—neutral to moderately alkaline

Hysing Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes, footslopes, and summits of mountains and hills
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 3 to 55 percent
Elevation: 2,200 to 4,600 feet
Average annual precipitation: 25 to 42 inches
Average annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 110 days

Taxonomic class: Ashy over sandy or sandy-skeletal, amorphic over isotic, frigid Typic Udivitrands

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 1 inch; slightly decomposed needles, leaves, twigs, and cones.
Oe—1 to 2 inches; moderately decomposed plant material mixed with 1980's Mount St. Helens volcanic ash.
A—2 to 6 inches; dark brown (10YR 3/3) ashy silt loam, brown (10YR 5/3) dry; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine, fine, and medium roots; many fine tubular pores and many very fine irregular pores; neutral; clear wavy boundary.
Bw1—6 to 18 inches; dark yellowish brown (10YR 4/4) ashy silt loam, brown (10YR 6/4) dry; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; many fine tubular pores and many very fine irregular pores; slightly acid; clear wavy boundary.
Bw2—18 to 28 inches; yellowish brown (10YR 5/4) ashy silt loam, very pale brown (10YR 7/4) dry; weak medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; many fine tubular pores and many very fine irregular pores; neutral; abrupt irregular boundary.
2BC—28 to 31 inches; light olive brown (2.5Y 5/3) very gravelly sandy loam, pale yellow (2.5Y 7/3) dry; weak fine subangular blocky structure; slightly hard, friable,

nonsticky and nonplastic; common very fine, fine, and medium roots throughout; few medium irregular pores and common very fine dendritic tubular pores; 35 percent fine gravel; moderately acid; clear irregular boundary.

2C—31 to 47 inches; variegated very gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few very fine roots; many very fine interstitial pores; 50 percent gravel; moderately acid; gradual wavy boundary.

2Cr—47 inches; weakly cemented quartz-monzonite; fractures less 4 inches apart; can be dug with spade with little difficulty; no roots.

Typical Pedon Location

Map unit in which located: Jacot-Hysing complex, 15 to 30 percent slopes

Location in survey area: Spokane County, Washington, about 4.5 miles southeast of Mount Spokane, Washington; about 575 feet south and 2,160 feet east of the northwest corner of section 10, T. 27 N., R. 45 E.

Range in Characteristics

Profile

Depth to bedrock—40 to 60 inches (paralithic)
Depth to bedrock—more than 60 inches (lithic)
Thickness of volcanic ash mantle—14 to 27 inches

A horizon

Hue—10YR, 7.5YR
Value—2 or 3 moist, 4 or 5 dry
Chroma—2 to 4 moist or dry
Clay content—3 to 8 percent
Gravel content—0 to 5 percent
Reaction—slightly acid, neutral

Bw horizon

Hue—10YR, 7.5YR
Value—3 to 5 moist, 4 to 7 dry
Chroma—3 to 6 moist or dry
Texture—ashy silt loam, ashy fine sandy loam
Clay content—3 to 8 percent
Gravel content—0 to 10 percent
Reaction—moderately acid to neutral

2Bt and 2Bw horizons (where present)

Value—4 or 5 moist, 4 to 6 dry
Chroma—3 to 6 moist or dry
Texture—sandy loam, loamy sand
Clay content—8 to 14 percent
Fine gravel content—20 to 30 percent
Reaction—strongly acid, moderately acid
Other features in some pedons—thin weak lamellae; 0 to 5 percent clay bridging sand grains

2BC and 2C horizons

Hue—10YR, 2.5Y
Value—4 to 6 moist, 6 to 8 dry
Chroma—3 or 4 moist or dry
Texture—sandy loam, loamy sand, loamy coarse sand, coarse sand, sand
Clay content—2 to 5 percent
Gravel content—35 to 60 percent, dominantly fine gravel
Reaction—strongly acid to neutral

Jacot Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes, footslopes, and summits of mountains and hills
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and quartz-monzonite
Slope range: 3 to 55 percent
Elevation: 2,200 to 4,600 feet
Average annual precipitation: 25 to 42 inches
Average annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 120 days

Taxonomic class: Ashy over loamy, amorphic over isotic, frigid Alfic Udivitrands

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 1 inch; slightly decomposed plant material.
Oe—1 to 3 inches; moderately decomposed plant material.
A—3 to 10 inches; dark brown (7.5YR 3/4) ashy silt loam, brown (7.5YR 5/4) dry; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine, fine, and medium roots; many fine tubular pores and many very fine irregular pores; slightly acid; clear wavy boundary.
Bw—10 to 18 inches; brown (7.5YR 4/4) ashy silt loam, light brown (7.5YR 6/4) dry; weak medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine and few medium and coarse roots; many fine tubular pores and many very fine irregular pores; neutral; abrupt wavy boundary.
2Bt1—18 to 24 inches; dark yellowish brown (10YR 4/4) gravelly sandy loam, light yellowish brown (10YR 6/4) dry; weak medium and coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine, fine, and coarse roots; common very fine and fine tubular pores; 15 percent discontinuous faint clay bridges between sand grains; 20 percent gravel; slightly acid; clear wavy boundary.
2Bt2—24 to 39 inches; light olive brown (2.5Y 5/3) gravelly sandy loam, pale yellow (2.5Y 7/3) dry; weak coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine, fine, and medium roots; many fine interstitial pores; 5 percent patchy faint clay bridges between sand grains; two 2-millimeter-thick discontinuous wavy clay lamellae; 25 percent gravel; slightly acid; clear wavy boundary.
2BC—39 to 50 inches; yellowish brown (10YR 5/6) gravelly sandy loam, yellow (10YR 7/6) dry; weak coarse subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; few very fine, fine, and medium roots; many fine interstitial pores; 15 percent gravel; slightly acid; clear wavy boundary.
2C1—50 to 59 inches; light olive brown (2.5Y 5/4) fine gravelly loamy sand, pale yellow (2.5Y 7/3) dry; massive; slightly hard, friable, nonsticky and nonplastic; few very fine and fine roots; many very fine, fine, and medium interstitial pores; 25 percent fine gravel; slightly acid; clear wavy boundary.
2C2—59 to 62 inches; 30 percent yellowish brown (10YR 5/4), 30 percent light olive brown (2.5Y 5/3), and 40 percent light brownish gray (2.5Y 6/2) fine gravelly loamy sand, very pale brown (10YR 7/4) and pale yellow (2.5Y 7/3 and 8/2) dry; massive; slightly hard, friable, nonsticky and nonplastic; few very fine and fine roots; many very fine, fine, and medium interstitial pores; 30 percent fine gravel; slightly acid.

Typical Pedon Location

Map unit in which located: Jacot-Hysing complex, 30 to 55 percent slopes
Location in survey area: Spokane County, Washington, about 4.5 miles southeast of Mount Spokane; about 0.5 mile south of Hysing Spring, on IEP logging road; about 2,015 feet east and 1,010 feet south of the northwest corner of section 13, T. 27 N., R. 45 E.

Range in Characteristics

Profile
Depth to bedrock—more than 60 inches
Thickness of volcanic ash mantle—14 to 20 inches

A horizon
Hue—10YR, 7.5YR
Value—3 to 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Clay content—3 to 8 percent
Gravel—0 to 10 percent
Bulk density—0.65 to 0.85 grams per cubic centimeter
Reaction—moderately acid to neutral

Bw horizon
Hue—7.5YR, 10YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—4 or 6 dry or moist
Texture—ashy silt loam, ashy fine sandy loam
Clay content—3 to 8 percent
Gravel content—0 to 10 percent
Reaction—moderately acid to neutral

2Bt horizon
Hue—10YR, 2.5Y, 7.5YR
Value—5 to 7 dry, 4 to 6 moist
Chroma—3 to 6 dry, 3 or 4 moist
Texture—sandy loam, fine sandy loam
Clay content—8 to 15 percent
Gravel content—5 to 30 percent
Reaction—moderately acid, slightly acid

2BC horizon
Hue—10YR, 2.5Y
Value—5 to 8 dry, 4 to 6 moist
Chroma—3 to 6 dry or moist
Texture—sandy loam, loamy sand
Clay content—3 to 5 percent
Gravel content—15 to 30 percent
Reaction—strongly acid to slightly acid

2C horizon
Hue—10YR, 2.5Y
Value—7 or 8 dry, 5 or 6 moist
Chroma—2 to 6 dry or moist
Textures—loamy sand, loamy coarse sand
Clay content—3 to 5 percent

Gravel content—25 to 55 percent
Reaction—strongly acid to slightly acid

Kaniksu Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers on outwash plains
Parent material: Sandy glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 25 percent
Elevation: 1,900 to 2,600 feet
Average annual precipitation: 20 to 30 inches
Average annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Sandy, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed leaves, needles, twigs, and bark.
A—1 to 6 inches; brown (10YR 5/3) ashy sandy loam, brown (10YR 4/3) moist; moderate fine and medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine and few medium roots; common very fine irregular and tubular pores; slightly acid; abrupt wavy boundary.
Bw—6 to 15 inches; pale brown (10YR 6/3) ashy sandy loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; soft, friable, slightly sticky and slightly plastic; common very fine and fine roots; many very fine irregular and tubular pores; neutral; clear wavy boundary.
E and Bt1—15 to 25 inches; pale brown (10YR 6/3) loamy sand, dark yellowish brown (10YR 4/4) moist (E part); weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; few 1/8-inch-thick continuous wavy bands of yellowish brown (10YR 5/4) loamy sand (Bt part), dark yellowish brown (10YR 4/4) moist; common very fine and fine and few coarse roots; many very fine irregular and tubular pores; slightly acid; gradual wavy boundary.
E and Bt2—25 to 43 inches; pale brown (10YR 6/3) loamy sand, brown (10YR 4/3) moist (E part); weak coarse subangular blocky structure; soft, very friable, nonsticky and nonplastic; few 1/8-inch-thick discontinuous wavy bands of dark yellowish brown (10YR 5/4) loamy sand (Bt part), yellowish brown (10YR 4/4) moist; few very fine and fine roots; many very fine irregular pores; 5 percent rounded gravel; slightly acid; gradual wavy boundary.
E and Bt3—43 to 55 inches; very pale brown (10YR 7/3) loamy sand, dark yellowish brown (10YR 4/4) moist (E part); weak coarse subangular blocky structure; soft, very friable, nonsticky and nonplastic; common continuous 1/4-inch-thick wavy bands of yellowish brown (10YR 5/4) loamy sand (Bt part), dark yellowish brown (10YR 4/4) moist; few very fine and fine roots; many very fine interstitial pores; 1 percent rounded gravel; slightly acid; gradual wavy boundary.
C—55 to 70 inches; variegated sand; single grain; loose, nonsticky and nonplastic; many fine interstitial pores; neutral.

Typical Pedon Location

Map unit in which located: Kaniksu ashy sandy loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 2 miles northeast of Chattaroy, Washington; about 2,400 feet south and 500 feet west of the northeast corner of section 25, T. 28 N., R. 43 E.

Range in Characteristics

Profile
Thickness of ochric epipedon—4 to 8 inches
Thickness of volcanic ash influence—7 to 20 inches
Depth to loamy sand or sand—12 to 24 inches
Combined thickness of lamellae 3/8 inch thick or more—less than 6 inches

A horizon
Value—4 or 5 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Clay content—4 to 8 percent
Gravel content—0 to 5 percent
Reaction—moderately acid, slightly acid

Bw horizon
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy fine sandy loam, sandy loam, fine sandy loam
Clay content—4 to 8 percent
Gravel content—0 to 5 percent
Reaction—slightly acid, neutral

E and Bt horizon
E part:
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, loamy sand, sand
Clay content—2 to 8 percent
Gravel content—0 to 10 percent
Reaction—slightly acid, neutral

Bt part:
Value—5 or 6 dry, 4 or 5 moist
Chroma—4 to 6 dry or moist

C horizon (where present)
Hue—10YR, 2.5Y, variegated
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy sand, sand
Clay content—0 to 5 percent
Gravel content—0 to 15 percent
Reaction—slightly acid, neutral

Keeler Taxadjunct

Depth class: Very deep
Drainage class: Well drained
Landform: Backslopes and summits of hills and mountains
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from granite

Slope range: 8 to 60 percent
Elevation: 2,300 to 3,700 feet
Mean annual precipitation: 25 to 38 inches
Mean annual air temperature: 41 to 45 degrees F
Frost-free period: 80 to 120 days

Taxonomic class: Fine-loamy, isotic, frigid Vitrandic Hapludalfs

Taxadjunct Features

The Keeler soils in this survey area are a taxadjunct to the series because they are assumed to meet the criteria for isotic mineralogy. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material.
Oe—1 to 2 inches; moderately decomposed plant material.
A—2 to 4 inches; brown (10YR 5/3) fine gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; many very fine and fine and common medium roots; many very fine and fine tubular and interstitial pores; 15 percent fine subrounded granite gravel; slightly acid; trace amount of very fine mica flakes; clear smooth boundary.
BA—4 to 9 inches; pale brown (10YR 6/3) fine gravelly ashy loam, dark yellowish brown (10YR 3/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine and few medium and coarse roots; common very fine and fine tubular pores; 20 percent fine subrounded granite gravel; slightly acid; trace amount of very fine mica flakes; clear wavy boundary.
BtE—9 to 16 inches; very pale brown (10YR 7/3) fine gravelly loam, brown (10YR 5/3) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium roots; common very fine tubular pores; 2 percent faint clay films on faces of peds; 25 percent fine subrounded granite gravel; strongly acid; trace amount of very fine mica flakes; clear wavy boundary.
Bt—16 to 30 inches; very pale brown (10YR 7/4) fine gravelly sandy loam, yellowish brown (10YR 5/4) moist; moderate fine subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine and fine roots; common very fine tubular pores and common fine interstitial pores; 2 percent distinct clay films on faces of peds and 10 percent faint clay films on faces of peds; 30 percent fine subrounded granite gravel; strongly acid; 5 percent very fine and fine mica flakes; abrupt irregular boundary.
Bt/E—30 to 50 inches; very pale brown (10YR 7/4) fine gravelly sandy clay loam, yellowish brown (10YR 5/4) moist (Bt part); very pale brown (10YR 8/3) fine gravelly sandy clay loam, brown (10YR 5/3) moist (E part); moderate fine and medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine and fine roots; few fine tubular pores and many very fine and fine interstitial pores; 5 percent distinct clay films on faces of peds and 10 percent faint clay films on faces of peds; 30 percent fine subrounded granite gravel; moderately acid; 5 percent very fine and fine mica flakes; gradual wavy boundary.
BCt—50 to 60 inches; mixed yellow (10YR 7/6) and very pale brown (10YR 7/4) very gravelly coarse sandy loam, yellowish brown (10YR 5/6 and 10YR 5/4) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky

and slightly plastic; few very fine roots; many very fine and fine interstitial pores; 50 percent fine subrounded granite gravel; moderately acid; 2- to 3-millimeter-thick strong brown (7.5YR 4/6) lamellae; 5 percent fine and medium mica flakes.

Typical Pedon Location

Map unit in which located: Keeler-Kruse complex, 30 to 60 percent slopes
Location in survey area: Spokane County, Washington, about 6 miles east of Milan, Washington; about 435 feet west and 880 feet north of the southeast corner of section 30, T. 29 N., R. 45 E.

Range in Characteristics

Profile
Thickness of volcanic ash influence—7 to 10 inches
Volcanic glass content—5 to 20 percent
Reaction—strongly acid to slightly acid

A horizon
Value—4 to 6 dry, 2 to 4 moist
Chroma—2 to 4 dry or moist
Texture—ashy loam
Clay content—8 to 12 percent
Fine gravel content—5 to 20 percent

BA horizon, and Bw horizon (where present)
Value—3 to 6 dry, 2 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy loam
Clay content—10 to 14 percent
Fine gravel content—5 to 25 percent

BtE horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 or 3 dry or moist
Texture—loam, sandy loam
Clay content—15 to 20 percent
Fine gravel content—10 to 30 percent

Bt horizon
Hue—10YR, 7.5YR
Value—5 to 7 dry, 4 to 6 moist
Chroma—4 to 6 dry or moist
Texture—sandy loam, sandy clay loam
Clay content—18 to 23 percent
Fine gravel content—10 to 30 percent

Bt/E horizon (where present)
Value—5 to 8 dry, 4 to 7 moist
Chroma—3 to 6 dry or moist
Texture—sandy loam, sandy clay loam
Clay content—18 to 25 percent
Fine gravel content—15 to 30 percent

BCt horizon
Texture—coarse sandy loam, sandy loam
Clay content—10 to 18 percent
Fine gravel content—15 to 55 percent

Kellerbutte Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes of mountains and hills
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 15 to 60 percent
Elevation: 2,200 to 5,000 feet
Average annual precipitation: 25 to 42 inches
Average annual air temperature: 42 to 46 degrees F
Frost-free period: 80 to 120 days

Taxonomic class: Ashy over loamy-skeletal, glassy over isotic, frigid Typic Vitrixerands

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, leaves, and twigs.
Oe—1 to 2 inches; moderately decomposed organic matter mixed with 1980's Mount St. Helens volcanic ash.
A—2 to 5 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 3/3) moist; weak fine granular structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine irregular and tubular pores; 10 percent gravel; neutral; clear wavy boundary.
Bw1—5 to 11 inches; yellowish brown (10YR 5/4) ashy silt loam, dark yellowish brown (10YR 3/4) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and few medium roots; many very fine and fine tubular and irregular pores; 10 percent gravel; slightly acid; gradual wavy boundary.
Bw2—11 to 17 inches; pale brown (10YR 6/3) gravelly ashy silt loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; common very fine and fine irregular pores and common fine tubular pores; 20 percent gravel and 5 percent cobbles; slightly acid; abrupt wavy boundary.
2Bw3—17 to 23 inches; very pale brown (10YR 7/3) very gravelly sandy loam, brown (10YR 5/3) moist; weak fine and medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and few fine roots; common very fine and fine irregular pores; 35 percent gravel and 15 percent cobbles; moderately acid; clear wavy boundary.
2BC—23 to 45 inches; very pale brown (10YR 7/3) very cobbly sandy loam, brown (10YR 5/3) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; few very fine roots; common very fine and fine irregular pores; 25 percent gravel and 25 percent cobbles; moderately acid; gradual wavy boundary.
2C—45 to 63 inches; very pale brown (10YR 7/3) extremely cobbly loamy sand, brown (10YR 5/3) moist; massive; soft, friable, nonsticky and nonplastic; few very fine roots; many very fine interstitial pores; 25 percent gravel and 40 percent cobbles; moderately acid; clear wavy boundary.
2R—63 inches; unweathered quartz-monzonite.

Typical Pedon Location

Map unit in which located: Kellerbutte-Brevco complex, 15 to 30 percent slopes
Location in survey area: Spokane County, Washington, about 1.2 miles east of Madison Branch Road, about 1,800 feet west and 2,100 feet south of the northeast corner of section 2, T. 27 N., R. 44 E.

Range in Characteristics

Profile
Depth to bedrock—60 to 80 inches (lithic)
Thickness of volcanic ash mantle—14 to 20 inches

A horizon
Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—3 to 4 dry or moist
Clay content—4 to 8 percent
Gravel content—0 to 10 percent
Reaction—slightly acid, neutral

Bw horizon
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy silt loam, ashy sandy loam
Clay content—4 to 8 percent
Gravel content—10 to 20 percent
Cobble content—0 to 5 percent
Total rock fragment content—10 to 25 percent
Reaction—slightly acid, neutral

2Bw horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam
Clay content—6 to 10 percent
Gravel content—25 to 40 percent
Cobble content—10 to 20 percent
Total rock fragment content—35 to 60 percent
Reaction—moderately acid, slightly acid

2BC horizon
Absent in some pedons

2C horizon
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Texture—loamy sand, loamy coarse sand
Clay content—2 to 5 percent
Gravel content—25 to 55 percent
Cobble content—15 to 40 percent
Total rock fragment content—50 to 75 percent
Reaction—moderately acid, slightly acid

Klickson Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes of basalt plateaus, earthflows, canyons, escarpments
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 15 to 80 percent

Elevation: 1,650 to 2,600 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Loamy-skeletal, isotic, frigid Vitrandic Argixerolls (fig. 27)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 2 inches; slightly decomposed moss, twigs, needles, and leaves.
Oe—2 to 3 inches; moderately decomposed organic material mixed with 1980's Mount St. Helens volcanic ash.
A1—3 to 8 inches; dark grayish brown (10YR 4/2) gravelly ashy silt loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; many very fine and fine and common medium and coarse roots; many fine irregular pores and many very fine tubular pores; 15 percent gravel; slightly acid; clear wavy boundary.

Figure 27.—Typical profile of a Klickson soil.

A2—8 to 12 inches; grayish brown (10YR 5/2) gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine and fine and few medium and coarse roots; common fine irregular pores and common very fine tubular pores; 20 percent gravel; slightly acid; clear wavy boundary.

BA—12 to 17 inches; brown (10YR 5/3) gravelly ashy loam, dark brown (10YR 3/3) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; common fine irregular pores and common very fine tubular pores; 5 percent clay bridges between sand grains; 25 percent gravel and 5 percent cobbles; moderately acid; clear wavy boundary.

Bt1—17 to 28 inches; pale brown (10YR 6/3) very cobbly loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine, fine, medium, and coarse roots; common very fine and fine tubular pores; 30 percent distinct clay films on faces of peds; 20 percent gravel and 20 percent cobbles; moderately acid; clear wavy boundary.

Bt2—28 to 35 inches; pale brown (10YR 6/3) very stony loam, brown (10YR 4/3) moist; moderate fine and medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine, fine, medium, and coarse roots; few very fine and fine tubular pores; 20 percent distinct clay films on faces of peds; 20 percent gravel, 10 percent cobbles, and 20 percent stones; moderately acid; clear wavy boundary.

Bt3—35 to 50 inches; light yellowish brown (10YR 6/4) extremely stony loam, dark yellowish brown (10YR 4/4) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; few very fine and fine tubular pores; 10 percent faint clay films on faces of peds; 15 percent gravel, 10 percent cobbles, and 50 percent stones; moderately acid; gradual wavy boundary.

BC—50 to 60 inches; light yellowish brown (10YR 6/4) extremely cobbly loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; few very fine irregular pores; 20 percent gravel, 40 percent cobbles, and 20 percent stones; moderately acid.

Typical Pedon Location

Map unit in which located: Klickson-Speigle complex, mass wasted, 15 to 30 percent slopes

Location in survey area: Spokane County, Washington, about 1 mile northwest of Mica, Washington; about 2,058 feet north and 2,880 feet east of the southwest corner of section 15, T. 24 N., R. 44 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—10 to 20 inches

A horizon

Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—10 to 15 percent
Gravel content—15 to 20 percent
Cobble content—0 to 10 percent

Total rock fragment content—15 to 30 percent
Reaction—slightly acid, neutral

BA horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—12 to 16 percent
Gravel content—10 to 30 percent
Cobble content—0 to 10 percent
Total rock fragment content—15 to 30 percent
Reaction—moderately acid to neutral

Bt horizon
Value—4 to 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—loam
Clay content—18 to 24 percent
Gravel content—15 to 40 percent
Cobble content—10 to 40 percent
Stone content—0 to 5 percent in upper part, 20 to 50 percent in lower part
Total rock fragment content—40 to 75 percent
Reaction—moderately acid, slightly acid

BC horizon
Value—4 to 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—loam
Clay content—12 to 20 percent
Gravel content—20 to 35 percent
Cobble content—40 to 55 percent
Stone content—10 to 30 percent
Total rock fragment content—70 to 90 percent
Reaction—moderately acid, slightly acid

A C horizon is in some pedons.

Kramerhill Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Summits, footslopes, and backslopes of hills and mountains
Parent material: Colluvium and residuum derived from saprolitic gneiss, quartzite, and Latah Formation mixed with loess and volcanic ash in the upper part
Slope range: 3 to 40 percent
Elevation: 1,900 to 3,200 feet
Average annual precipitation: 15 to 25 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-loamy, isotic, mesic Vitrandic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, twigs, and moss.

A1—1 to 5 inches; yellowish brown (10YR 5/4) ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and common fine and medium roots; many very fine and fine irregular and tubular pores; 10 percent gravel; slightly acid; clear wavy boundary.

A2—5 to 9 inches; brown (10YR 5/3) ashy loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; 10 percent gravel; neutral; abrupt wavy boundary.

BE—9 to 19 inches; light yellowish brown (10YR 6/4) gravelly loam, yellowish brown (10YR 5/4) moist; weak fine and medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few fine and common very fine roots; common very fine tubular pores; 15 percent distinct clay films on faces of peds; 20 percent gravel; slightly acid; clear wavy boundary.

Bt1—19 to 30 inches; brown (7.5YR 5/4) gravelly sandy clay loam, brown (7.5YR 4/4) moist; moderate fine and medium subangular blocky structure; very hard, very firm, slightly sticky and slightly plastic; few very fine and fine roots; few fine and common very fine tubular pores; 50 percent distinct clay films on faces of peds; 5 percent fine mica flakes; 20 percent gravel; slightly acid; gradual wavy boundary.

Bt2—30 to 46 inches; strong brown (7.5YR 5/6) gravelly sandy clay loam, strong brown (7.5YR 4/6) moist; moderate medium subangular blocky structure; very firm, very hard, slightly sticky and slightly plastic; few very fine roots; few fine and common very fine tubular pores; 50 percent distinct clay films on faces of peds; 5 percent fine mica flakes; 25 percent gravel; slightly acid; gradual wavy boundary.

Cr—46 inches; highly weathered and moderately weathered saprolitic gneiss; 30 percent discontinuous clay films in cracks.

Typical Pedon Location

Map unit in which located: Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes

Location in survey area: Spokane County, Washington, about 1.5 miles south of Liberty Lake, Washington; about 185 feet north and 2,275 feet east of the southwest corner of section 35, T. 25 N., R. 45 E.

Range in Characteristics

Profile

Depth to bedrock—40 to 60 inches (paralithic)
Thickness of volcanic ash influence—7 to 14 inches

A horizon

Value—4 to 6 dry, 2 to 4 moist
Chroma—1 to 4 dry or moist
Clay content—10 to 16 percent
Gravel content—0 to 10 percent
Cobble content—0 to 5 percent
Total rock fragment content—0 to 15 percent
Reaction—slightly acid, neutral

A Bw horizon is in some pedons.

BE horizon

Value—6 or 7 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Texture—loam, silt loam

Clay content—12 to 18 percent
Gravel content—5 to 20 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 25 percent
Reaction—slightly acid, neutral

Bt horizon
Hue—10YR, 7.5YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 to 6 dry or moist
Texture—sandy clay loam, loam, clay loam
Clay content—20 to 34 percent
Gravel content—10 to 30 percent
Cobble content—0 to 5 percent
Total rock fragment content—10 to 35 percent
Reaction—moderately acid to neutral

A BC or C horizon is in some pedons.

Kronquist Series

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Flood plains, drainageways, stream terraces
Parent material: Alluvium mixed with loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Elevation: 1,600 to 2,400 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 42 to 46 degrees F
Frost-free period: 80 to 110 days

Taxonomic class: Fine-loamy, isotic, frigid Aquandic Endoaqualfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 11 inches; dark gray (10YR 4/1) ashy silt loam, black (10YR 2/1) moist; moderate fine granular structure; slightly hard, friable, slightly sticky and slightly plastic; common fine roots; many very fine irregular and tubular pores; neutral; abrupt smooth boundary.

BAt—11 to 27 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; strong medium prismatic structure parting to strong very fine angular blocky; very hard, firm, moderately sticky and moderately plastic; common fine roots; many very fine irregular and tubular pores; common faint clay films in pores and on some faces of peds; few very fine black stains in pores; 15 percent fine gray (10YR 5/1) iron depletions, very dark gray (10YR 3/1) moist; 2 percent fine distinct yellowish brown (10YR 5/6) masses of iron and manganese accumulation; neutral; clear smooth boundary.

Btg1—27 to 40 inches; grayish brown (10YR 5/2) clay loam, very dark grayish brown (10YR 3/2) moist; strong fine prismatic structure parting to strong fine angular blocky; very hard, firm, moderately sticky and moderately plastic; few fine roots; many very fine and common fine pores; common faint and distinct slightly darker clay films on surface of peds and continuous clay films in tubular pores and some adjacent irregular pores; 2 percent fine distinct masses of iron and manganese accumulation that are dark brown (7.5YR 4/4) moist; neutral; clear wavy boundary.

Btg2—40 to 55 inches; grayish brown (10YR 5/2) clay loam, dark brown (10YR 3/3) moist; weak medium prismatic structure parting to weak medium angular blocky; very hard, firm, moderately sticky and moderately plastic; few fine roots; common fine and many very fine irregular and interstitial pores; common clay films on faces of peds and continuous clay films in tubular pores and some adjacent irregular pores; 2 percent fine faint masses of iron and manganese accumulation that are dark brown (7.5YR 4/4) moist; neutral; abrupt wavy boundary.

BCtg—55 to 60 inches; light brownish gray (10YR 6/2) sandy clay loam, dark grayish brown (10YR 4/2) moist; massive; very hard, firm, moderately sticky and moderately plastic; few fine roots; common very fine and fine pores; few faint clay films in pores; 2 percent fine faint masses of iron and manganese accumulation that are dark brown (7.5YR 4/4) moist; neutral.

Typical Pedon Location

Map unit in which located: Hoodoo-Kronquist complex, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 1.75 miles southeast of the junction of Forker Road and State Route 206; about 2,079 feet south and 819 feet west of the northeast corner of section 2, T. 26 N., R. 44 E.

Range in Characteristics

Profile

Thickness of umbric epipedon—more than 20 inches
Thickness of volcanic ash influence—20 to 30 inches
Clay content in particle-size control section—27 to 34 percent
Depth to apparent water table—10 to 20 inches in February through May, more than 10 inches in June through January
Depth to redoximorphic features—10 to 20 inches
Redoximorphic concentrations—distinct or prominent in lower part of umbric epipedon
Reaction—slightly acid or neutral

A horizon

Hue—10YR, 2.5Y
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 or 2 moist or dry
Clay content—12 to 18 percent

BAt horizon

Hue—10YR, 2.5Y
Value—4 or 5 dry, 2 or 3 moist
Chroma—0 to 2 moist or dry
Clay content—16 to 22 percent

Btg horizon

Hue—10YR, 2.5Y, neutral
Value—4 or 5 dry, 2 to 3 moist
Chroma—commonly 0 to 2 moist or dry, but ranges to 3 moist or dry in Btg2 horizon
Texture—silty clay loam, clay loam
Clay content—27 to 34 percent

BCtg horizon

Hue—10YR, 2.5Y, neutral
Value—5 or 6 dry, 3 or 4 moist
Chroma—0 to 2 moist or dry
Texture—sandy clay loam, clay loam
Clay content—27 to 34 percent
Gravel content—0 to 10 percent

Kruse Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes, summits, and footslopes of mountains and hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite, gneiss, and schist
Slope range: 8 to 60 percent
Elevation: 2,000 to 3,600 feet
Average annual precipitation: 25 to 38 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 80 to 120 days

Taxonomic class: Fine-loamy, isotic, frigid Vitrandic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material.
Oe—1 to 2 inches; moderately decomposed plant material.
A—2 to 10 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; many fine, medium, and coarse roots; many fine tubular pores and many very fine irregular pores; 5 percent fine gravel; neutral; 1 percent very fine mica flakes; clear wavy boundary.
BA—10 to 15 inches; pale brown (10YR 6/3) ashy sandy loam, brown (10YR 4/3) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common fine and medium and few coarse roots; many fine tubular pores and many very fine irregular pores; 5 percent fine gravel; neutral; 2 percent very fine mica flakes; clear wavy boundary.
Bt1—15 to 23 inches; very pale brown (10YR 7/3) gravelly sandy clay loam, brown (7.5YR 5/4) moist; moderate medium subangular blocky structure; hard, firm, slightly sticky and moderately plastic; few very fine, fine, and medium roots; common fine irregular pores and common very fine tubular pores; 5 percent distinct clay films along pores and 20 percent faint clay films on faces of peds; 15 percent gravel; slightly acid; 5 percent very fine mica flakes; gradual wavy boundary.
Bt2—23 to 32 inches; brown (7.5YR 5/4) gravelly sandy clay loam, strong brown (7.5YR 5/6) moist; moderate medium and coarse subangular blocky structure; very hard, very firm, slightly sticky and moderately plastic; few fine roots; many fine tubular pores and many very fine irregular pores; 50 percent prominent clay films on faces of peds; 25 percent gravel; moderately acid; 10 percent very fine mica flakes; gradual wavy boundary.
Bt3—32 to 46 inches; pink (7.5YR 7/4) gravelly sandy clay loam, strong brown (7.5YR 5/6) moist; moderate coarse subangular blocky structure; very firm, very hard, slightly sticky and moderately plastic; few very fine roots throughout; many fine irregular pores; 20 percent distinct clay films along pores; 20 percent gravel; moderately acid; 15 percent very fine mica flakes; clear wavy boundary.
BC—46 to 52 inches; pale yellow (2.5Y 8/2) gravelly sandy loam, light olive brown (2.5Y 5/3) moist; massive parting to weak coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine roots; many fine irregular pores; 15 percent gravel; slightly acid; 10 percent very fine mica flakes;

two 1- to 3-millimeter-thick strong brown (7.5YR 5/6) wavy clay bands; gradual wavy boundary.

C—52 to 61 inches; pale yellow (2.5Y 8/2) gravelly sandy loam, light olive brown (2.5Y 5/3) moist; massive; slightly hard, friable, nonsticky and nonplastic; few very fine roots; many fine irregular pores; 20 percent gravel; slightly acid; 10 percent very fine mica flakes.

Typical Pedon Location

Map unit in which located: Kruse ashy silt loam, 8 to 15 percent slopes

Location in survey area: Spokane County, Washington, east of fenceline on IEP property; about 2,545 feet west and 1,595 feet south of the northeast corner of section 28, T. 24 N., R. 45 E.

Range in Characteristics

Profile

Thickness of volcanic ash influence—7 to 14 inches

A horizon

Value—4 to 6 dry, 2 to 4 moist
Chroma—2 to 3 dry or moist
Clay content—5 to 15 percent
Gravel content—5 to 20 percent
Reaction—slightly acid, neutral

BA or Bw horizon

Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy loam, ashy sandy loam
Clay content—5 to 15 percent
Gravel content—5 to 20 percent
Reaction—slightly acid, neutral

Bt horizon

Hue—10YR, 7.5YR
Value—5 to 7 dry, 4 or 5 moist
Chroma—2 to 6 dry or moist
Texture—loam, sandy clay loam, clay loam
Clay content—18 to 30 percent
Gravel content—5 to 25 percent
Reaction—moderately acid, slightly acid

BC horizon

Hue—2.5Y, 10YR, 7.5YR
Value—5 to 8 dry, 3 to 5 moist
Chroma—2 to 6 dry, 3 to 6 moist
Texture—sandy loam, loam, sandy clay loam
Clay content—10 to 30 percent
Gravel content—5 to 40 percent
Mica content—2 to 15 percent
Reaction—moderately acid, slightly acid

C horizon (where present)

Hue—10YR, 2.5Y
Value—6 to 8 dry, 5 to 7 moist
Chroma—2 to 4 dry or moist

Texture—sandy loam, coarse sandy loam
Clay content—5 to 12 percent
Gravel content—10 to 45 percent
Mica content—2 to 15 percent
Reaction—moderately acid, slightly acid

Lacy Series

Depth class: Shallow
Drainage class: Well drained
Position on landscape: Summits, shoulders, and backslopes of basalt plateaus and escarpments
Parent material: Loess over colluvium and residuum derived from basalt
Slope range: 0 to 8 percent
Elevation: 1,900 to 2,700 feet
Average annual precipitation: 18 to 23 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, mixed, superactive, mesic Lithic Ultic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 2 inches; brown (10YR 5/3) cobbly loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; many very fine and fine tubular pores; 10 percent gravel, 20 percent cobbles, and 2 percent stones; neutral; clear wavy boundary.

AB—2 to 6 inches; brown (10YR 5/3) extremely cobbly loam, dark brown (10YR 3/3) moist; moderate fine subangular blocky structure; hard, firm, slightly sticky and moderately plastic; common very fine and fine and few medium roots; common very fine and fine tubular pores; 25 percent faint clay films on faces of peds; 15 percent gravel, 50 percent cobbles, and 5 percent stones; slightly acid; clear wavy boundary.

Bt—6 to 10 inches; yellowish brown (10YR 5/4) extremely cobbly loam, dark yellowish brown (10YR 3/4) moist; moderate fine subangular blocky structure; hard, firm, slightly sticky and moderately plastic; few fine, medium, and coarse roots; common very fine and fine tubular pores; 10 percent faint clay films on faces of peds; 15 percent gravel, 50 percent cobbles, and 10 percent stones; slightly acid; gradual wavy boundary.

BC—10 to 16 inches; yellowish brown (10YR 5/6) extremely stony loam, dark yellowish brown (10YR 3/6) moist; moderate fine subangular blocky structure; hard, firm, slightly sticky and moderately plastic; few fine, medium, and coarse roots; few very fine and fine irregular pores; 5 percent faint clay films on rock fragments; 10 percent gravel, 35 percent cobbles, and 40 percent stones; slightly acid; abrupt wavy boundary.

R—16 inches; unweathered basalt.

Typical Pedon Location

Map unit in which located: Bobbitt-Lacy complex, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 0.75 mile north of Valleyford, Washington; about 385 feet west and 1,065 feet south of the northeast corner of section 28, T. 24 N., R. 44 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—6 to 14 inches
Depth to bedrock—10 to 20 inches (lithic)
Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—15 to 20 percent
Gravel content—10 to 20 percent
Cobble content—10 to 25 percent
Stone content—0 to 5 percent
Total rock fragment content—15 to 30 percent

AB horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 dry, 2 or 3 moist
Texture—loam
Clay content—20 to 25 percent
Gravel content—10 to 20 percent
Cobble content—15 to 60 percent
Stone content—0 to 5 percent
Total rock fragment content—35 to 70 percent

Bt horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—3 or 4 dry, 2 to 4 moist
Texture—loam
Clay content—20 to 30 percent
Gravel content—10 to 20 percent
Cobble content—25 to 60 percent
Stone content—0 to 15 percent
Total rock fragment content—35 to 75 percent

BC horizon
Value—3 to 5 dry, 3 or 4 moist
Chroma—3 to 6 dry or moist
Texture—loam, clay loam
Clay content—20 to 30 percent
Gravel content—0 to 15 percent
Cobble content—30 to 75 percent
Stone content—0 to 40 percent
Total rock fragment content—65 to 85 percent

Lakespring Series

Depth class: Moderately deep
Drainage class: Moderately well drained
Position on landscape: Treads and risers on outwash terraces, relict glacial lake terraces, and outwash plains
Parent material: Loess mixed with a minor amount of volcanic ash over laminated Latah Formation, glaciolacustrine deposits, and landslide deposits
Slope range: 0 to 25 percent

Elevation: 1,800 to 2,600 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 45 to 52 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-loamy, mixed, superactive, mesic Vitrandic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 7 inches; brown (10YR 5/3) ashy loam, dark brown (10YR 3/3) moist; weak medium and thick platy structure; slightly hard, very friable, nonsticky and slightly plastic; common very fine and few fine roots; many very fine irregular pores and few fine tubular pores; 5 percent gravel; neutral; abrupt smooth boundary.

Bt1—7 to 21 inches; yellowish brown (10YR 5/4) loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; moderately hard, firm, slightly sticky and slightly plastic; common very fine and few fine roots; common very fine irregular pores and few fine tubular pores; 2 percent faint clay films on faces of peds; 10 percent gravel; neutral; clear smooth boundary.

Bt2—21 to 34 inches; yellowish brown (10YR 5/4) gravelly loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; common very fine irregular pores and few fine tubular pores; 15 percent distinct clay films on faces of peds; 2 percent fine black (N 2.5/0) iron-manganese concretions; 15 percent gravel; neutral; abrupt irregular boundary.

2Cd1—34 to 39 inches; yellow (10YR 7/8) and brownish yellow (10YR 6/8) silty clay loam, dark yellowish brown (10YR 4/6) moist; massive laminated thick plates; rigid, moderately sticky and moderately plastic; few very fine roots; few very fine irregular pores; slightly acid; clear smooth boundary.

2Cd2—39 to 50 inches; pale yellow (2.5Y 8/2) and light gray (2.5Y 7/2) silt loam, light yellowish brown (2.5Y 6/4) and dark yellowish brown (10YR 4/4) moist; massive laminated very thick plates; extremely hard, very firm, moderately sticky and moderately plastic; few very fine roots; many very fine irregular pores; 2 percent fine black (N 2.5/0) iron-manganese concretions and 10 percent medium strong brown (7.5YR 5/6) masses of oxidized iron; neutral; gradual smooth boundary.

2Cd3—50 to 72 inches; white (5Y 8/1) silty clay loam, dark yellowish brown (10YR 4/4) and light reddish brown (2.5YR 6/3) moist; massive laminated thick plates; extremely hard, very firm, moderately sticky and moderately plastic; many very fine irregular pores; 1 percent fine black (N 2.5/0) iron-manganese concretions and 4 percent fine dark yellowish brown (10YR 4/6) masses of oxidized iron lining pores; neutral.

Typical Pedon Location

Map unit in which located: Lakespring-Brincken, moist, complex, 8 to 25 percent slopes

Location in survey area: Spokane County, Washington, about 1.5 miles southwest of Silver Hill; about 200 feet south and 2,400 feet east of the northwest corner of section 27, T. 24 N., R. 43 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—7 to 9 inches
Thickness of volcanic ash influence—7 to 14 inches
Depth to perched water table—21 to 34 inches in February through April

Depth to redoximorphic features—21 to 36 inches
Depth to densic layer—20 to 40 inches
Reaction—slightly acid, neutral

Ap horizon, or A horizon (where present)
Hue—10YR, 2.5Y
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Clay content—8 to 12 percent
Gravel content—0 to 10 percent

An E, Bw, or Btx horizon is in some pedons.

Bt horizon
Hue—10YR, 5Y
Value—5 to 8 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—loam
Clay content—18 to 25 percent
Gravel content—0 to 15 percent

2Cd horizon
Hue—10YR, 5Y
Value—5 to 8 dry, 4 to 7 moist
Chroma—1 to 8 dry or moist
Texture—silt loam, loam, clay loam, silty clay loam
Clay content—18 to 34 percent
Gravel content—0 to 10 percent

Lakestarr Series

Depth class: Deep to densic material
Drainage class: Moderately well drained
Position on landscape: Backslopes and footslopes of mountains and hills
Parent material: Thin mantle of volcanic ash and loess over colluvium derived from pre-Tertiary felsic gneiss, schist, and till
Slope range: 8 to 30 percent
Elevation: 2,350 to 3,100 feet
Average annual precipitation: 25 to 35 inches
Average annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 120 days

Taxonomic class: Fine-loamy, isotic, frigid Andic Hapludalfs

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 2 inches; slightly decomposed needles, leaves, and twigs mixed with a discontinuous accumulation of 1980's Mount St. Helens volcanic ash.
Oe—2 to 3 inches; moderately decomposed plant material.
A—3 to 10 inches; dark brown (7.5YR 3/4) ashy silt loam, brown (7.5YR 5/4) dry; weak fine subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; weakly smeary; common very fine, fine, and medium roots; common fine tubular pores and common very fine irregular pores; slightly acid; clear wavy boundary.

Bw—10 to 15 inches; brown (7.5YR 4/4) ashy silt loam, light brown (7.5YR 6/4) dry; weak medium subangular blocky structure; friable, soft, slightly sticky and slightly plastic; common very fine, fine, and medium roots; common fine tubular pores and common very fine irregular pores; slightly acid; abrupt wavy boundary.

2E/Bt—15 to 24 inches; 60 percent brown (7.5YR 4/3) silt loam, pink (7.5YR 7/3) dry (E part), and 40 percent brown (7.5YR 4/3) loam, light brown (7.5YR 6/3) dry (Bt part); moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium roots; common very fine and fine tubular and irregular pores; 20 percent faint clay films on faces of peds; moderately acid; clear wavy boundary.

2Btc—24 to 39 inches; brown (10YR 5/3) loam, very pale brown (10YR 7/3) dry; moderate coarse angular blocky structure; hard, firm, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; few fine irregular pores and common very fine tubular pores; 30 percent distinct clay films on faces of peds; 2 percent fine spherical very strongly cemented iron-manganese concretions with sharp boundaries in matrix; moderately acid; abrupt wavy boundary.

2E/Btxc—39 to 47 inches; 60 percent yellowish brown (10YR 5/4) loam, very pale brown (10YR 7/3) dry (E part), and 40 percent brown (7.5YR 5/4) loam, light brown (7.5YR 6/4) dry (Btx part); strong coarse angular blocky structure; extremely hard, extremely firm, slightly sticky and slightly plastic; brittle; no roots; common very fine and fine irregular pores; 60 percent distinct clay films on vertical faces of peds; 2 percent fine spherical very strongly cemented iron-manganese concretions with sharp boundaries in matrix; approximately 40 percent of horizon is dense and brittle; moderately acid; clear wavy boundary.

3Cdc1—47 to 55 inches; mixed light brown (7.5YR 6/3) and brown (7.5YR 5/4) loam, pink (7.5YR 7/4 and 7/3) dry; massive; extremely hard, firm, slightly sticky and slightly plastic; no roots; common very fine and few fine and medium irregular pores; 2 percent fine spherical very strongly cemented iron-manganese concretions with sharp boundaries in matrix; 2 percent fine gravel; strongly acid; clear wavy boundary.

3Cdc2—55 to 65 inches; brown (7.5YR 5/4) sandy clay loam, pink (7.5YR 7/3) dry; massive; very hard, very firm, slightly sticky and moderately plastic; no roots; few fine and common very fine irregular pores; 2 percent fine spherical very strongly cemented iron-manganese concretions with sharp boundaries in matrix; 10 percent fine gravel; strongly acid.

Typical Pedon Location

Map unit in which located: Lakestarr-Santa complex, 15 to 30 percent slopes

Location in survey area: Spokane County, Washington, about 7 miles east of Freeman, Washington; about 110 feet south and 2,835 feet west of the northeast corner of section 1, T. 23 N., R. 45 E.

Range in Characteristics

Profile

Depth to densic layer—40 to 60 inches
Depth to 2E/Btxc horizon—27 to 44 inches
Thickness of volcanic ash mantle—7 to 14 inches
Depth to perched water table—15 to 40 inches in February through April
Depth to redoximorphic features—15 to 40 inches

A horizon

Hue—10YR, 7.5YR
Value—3 or 4 moist, 5 or 6 dry

Chroma—3 or 4 moist or dry
Clay content—5 to 8 percent
Gravel content—0 to 5 percent

Bw horizon
Hue—10YR, 7.5YR
Chroma—4 to 6 moist or dry
Texture—ashy silt loam, ashy loam
Clay content—8 to 12 percent
Gravel content—0 to 10 percent
Reaction—moderately acid to neutral

2E/Bt or 2Bt/E horizon
Value—4 or 5 moist, 6 or 7 dry
Chroma—3 or 4 moist or dry
Texture—loam, silt loam
Clay content—18 to 22 percent
Gravel content—0 to 10 percent

2Btc horizon
Value—6 or 7 dry
Chroma—3 or 4 moist or dry
Texture—loam, silt loam
Clay content—18 to 20 percent
Gravel content—0 to 5 percent
Reaction—very strongly acid to slightly acid

2E/Btxc or 2Bt/Exc horizon
Texture—loam, sandy clay loam
Clay content—20 to 30 percent
Gravel content—0 to 5 percent
Reaction—strongly acid to slightly acid

3Cdc horizon
Hue—7.5YR, 10YR
Texture—loam, sandy loam, sandy clay loam
Clay content—20 to 24 percent in upper part, 18 to 30 percent in lower part
Gravel content—2 to 10 percent in upper part, 10 to 20 percent in lower part
Reaction—very strongly acid to moderately acid

Lance Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits, shoulders, and side slopes of loess hills on basalt plateaus
Parent material: Recent loess over older loess
Slope range: 15 to 60 percent
Elevation: 2,200 to 2,750 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 48 to 52 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Calcic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 9 inches; light brownish gray (10YR 6/2) silt loam, dark grayish brown (10YR 4/2) moist; weak fine and medium granular structure; slightly hard, friable, slightly sticky and slightly plastic; common fine roots; many very fine interstitial pores; 5 percent hard and brittle durinodes in lower part; violently effervescent; moderately alkaline; abrupt smooth boundary.

Bkq1—9 to 14 inches; light gray (10YR 7/2) weakly silica-cemented extremely parachannery silt loam, brown (10YR 5/3) moist; moderate medium platy structure; very hard, firm, slightly sticky and slightly plastic; few very fine roots; common very fine tubular pores; about 75 percent 1/2-inch extremely hard and brittle durinodes and discontinuous 1/8-inch-thick lenses; violently effervescent with many very pale brown (10YR 8/2) lime coatings on durinodes and lenses and as threads in matrix; strongly alkaline; clear wavy boundary.

Bkq2—14 to 22 inches; light gray (10YR 7/2) very parachannery silt loam, dark brown (10YR 4/3) moist; weak fine and medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine roots; common very fine tubular pores; 50 percent 1/2-inch extremely hard brittle durinodes; noneffervescent matrix, many very pale brown (10YR 8/2) lime coatings on durinodes; strongly alkaline; clear wavy boundary.

Bkq3—22 to 40 inches; light brown (7.5YR 6/4) silt loam, dark brown (7.5YR 4/4) moist; moderate fine and medium angular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine roots; common very fine tubular pores; common black (10YR 2/1) coatings on peds; common thin discontinuous silica films on peds and in pores; noneffervescent matrix, common very pale brown (10YR 8/2) lime in seams; strongly alkaline; clear wavy boundary.

Bkq4—40 to 60 inches; light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; massive; hard, firm, slightly sticky and slightly plastic; few very fine roots; few very fine tubular pores; few thin silica films in tubular pores and as bridges between sand grains; slightly effervescent, lime in seams and pores; strongly alkaline.

Typical Pedon Location

Map unit in which located: Athena-Lance complex, 15 to 30 percent slopes

Location in survey area: Spokane County, Washington, about 2,110 feet north and 450 feet east of the southwest corner of section 14, T. 23 N., R. 41 E.

Range in Characteristics

Profile

Clay content in particle-size control section—18 to 22 percent
Depth to Bkq horizon—6 to 12 inches
Depth to weak duripan (in some pedons)—below 40 inches
Texture—silt loam throughout

A horizon

Value—5 to 7 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Clay content—18 to 24 percent
Durinode content—0 to 15 percent; weakly cemented to strongly cemented

Bkq horizon

Hue—7.5YR, 10YR
Value—6 or 7 dry, 3 or 4 moist

Chroma—2 to 4 dry or moist
Clay content—18 to 22 percent in upper part, 10 to 20 percent in lower part
Structure—subangular blocky, angular blocky, prismatic, massive
Durinode content—0 to 80 percent; weakly cemented to strongly cemented
Reaction—moderately alkaline, strongly alkaline

Larkin Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits, shoulders, and backslopes of loess hills on basalt plateaus
Parent material: Loess
Slope range: 0 to 25 percent
Elevation: 2,400 to 3,000 feet
Average annual precipitation: 19 to 28 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Ultic Argixerolls (fig. 28)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 4 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure parting to weak fine granular; very friable, soft, slightly sticky and moderately plastic; many very fine and fine roots throughout; many very fine and fine tubular pores; moderately acid; abrupt smooth boundary.

A—4 to 9 inches; dark grayish brown (10YR 4/2) silt loam, very dark gray (10YR 3/1) moist; moderate medium subangular blocky structure; very friable, soft, slightly sticky and moderately plastic; common very fine and fine roots throughout; common very fine and fine tubular pores; moderately acid; clear wavy boundary.

AB—9 to 14 inches; grayish brown (10YR 5/2) silt loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure; friable, slightly hard, slightly sticky and moderately plastic; few very fine and fine roots throughout; few very fine and fine tubular pores; moderately acid; clear wavy boundary.

Bt1—14 to 19 inches; brown (10YR 5/3) silty loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; hard, firm, slightly sticky and moderately plastic; few very fine and fine roots throughout; few very fine and fine tubular pores; 5 percent continuous prominent clay films that are dark brown (10YR 3/3) moist and on faces of peds and 5 percent continuous prominent light gray (10YR 7/2) silt coatings on faces of peds; few fine distinct spherical black (10YR 2/1) iron-manganese nodules with clear boundaries throughout; moderately acid; clear wavy boundary

Bt2—19 to 34 inches; yellowish brown (10YR 5/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; moderate medium angular blocky structure; hard, firm, moderately sticky and moderately plastic; few very fine and fine roots throughout; few very fine and fine tubular pores; 5 percent continuous prominent clay films that are dark brown (10YR 3/3) moist and on faces of peds and 35 percent continuous prominent light gray (10YR 7/2) silt coatings on faces of peds; few fine

Figure 28.—Typical profile of a Larkin soil.

faint spherical black (10YR 2/1) iron-manganese nodules with clear boundaries throughout; slightly acid; clear wavy boundary.

Bt3—34 to 64 inches; yellowish brown (10YR 5/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; moderate medium angular blocky structure; extremely hard, firm, moderately sticky and moderately plastic; few very fine and fine roots throughout; few very fine and fine tubular pores; 10 percent continuous prominent light gray (10YR 7/2) silt coatings on faces of peds; few fine faint spherical very dark brown (10YR 2/2) iron-manganese nodules with clear boundaries throughout; neutral.

Typical Pedon Location

Map unit in which located: Larkin-Southwick complex, 8 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 1,410 feet east and 450 feet south of the northwest corner of section 2, T. 22 N., R. 45 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 14 inches

Depth to argillic horizon—10 to 18 inches

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—15 to 25 percent
Reaction—strongly acid to slightly acid

Bt horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—18 to 35 percent
Gravel content—0 to 3 percent
Reaction—moderately acid to neutral

Some pedons do not have an AB horizon.

Latah Series

Depth class: Very deep
Drainage class: Somewhat poorly drained
Position on landscape: Drainageways, low stream terraces
Parent material: Alluvium derived from loess
Slope range: 0 to 3 percent
Elevation: 2,320 to 2,700 feet
Average annual precipitation: 18 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Fine, mixed, superactive, mesic Xeric Argialbolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 10 inches; dark grayish brown (10YR 4/2) silt loam, black (10YR 2/1) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots; few fine tubular pores; neutral; abrupt wavy boundary

A—10 to 14 inches; dark grayish brown (10YR 4/2) silt loam, black (10YR 2/1) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; few fine tubular pores; few pockets of white (10YR 8/1) volcanic ash; neutral; abrupt wavy boundary

BA—14 to 19 inches; dark grayish brown (10YR 4/2) silt loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; common very fine and fine roots; many fine tubular pores; neutral; clear wavy boundary

E—19 to 22 inches; light brownish gray (10YR 6/2) silt loam, dark grayish brown (10YR 4/2) moist; moderate medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; few very fine and fine roots; common fine tubular pores, neutral; clear wavy boundary

Btgb1—22 to 31 inches; grayish brown (10YR 5/2) silty clay loam, very dark grayish brown (2.5Y 3/2) moist; weak medium prismatic structure parting to moderate medium subangular blocky; moderately hard, firm, moderately sticky and moderately plastic; few very fine and fine roots; few very fine tubular pores; few fine iron-manganese concretions that are black (10YR 2/1) moist; many distinct

continuous clay films on faces of peds; moderately alkaline; clear wavy boundary.

Btgb2—31 to 38 inches; grayish brown (10YR 5/2) silty clay loam, very dark grayish brown (2.5Y 3/2) moist; moderate medium prismatic structure; hard, very firm, very sticky and very plastic; few very fine roots; common fine prominent masses of oxidized iron that are dark yellowish brown (10YR 4/6) moist and few fine iron-manganese concretions that are black (10YR 2/1) moist; many continuous clay films on faces of peds; moderately alkaline; clear wavy boundary.

Btb—38 to 60 inches; light yellowish brown (2.5Y 6/3) silty clay loam, olive (5Y 5/3) moist; moderate medium prismatic structure; hard, very firm, moderately sticky and very plastic; many fine and medium distinct masses of oxidized iron that are dark yellowish brown (10YR 4/6) moist and few fine iron-manganese concretions that are black (10YR 2/1) moist; many continuous clay films on faces of peds; slightly alkaline.

Typical Pedon Location

Map unit in which located: Tilma-Latah complex, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 4 miles south of Spangle, Washington; about 2,920 feet north and 2,370 feet west of the southeast corner of section 28, T. 22 N., R. 43 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—17 to 30 inches
Depth to perched water table—18 to 22 inches in December and January
Depth to apparent water table—18 to 22 inches in February through April, more than 22 inches in May through November
Depth to redoximorphic features—18 to 24 inches

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—1 or 2 moist or dry
Clay content—14 to 22 inches
Reaction—slightly acid to slightly alkaline

E horizon

Value—5 to 7 dry, 4 or 5 moist
Chroma—1 or 2 moist or dry
Texture—silt loam, silt
Clay content—8 to 12 inches
Reaction—neutral, slightly alkaline

Btgb horizon

Hue—10YR, 2.5Y, 5Y
Value—5 or 6 dry, 3 or 4 dry
Chroma—1 or 2 dry or moist
Texture—silty clay loam, silty clay
Clay content—35 to 45 percent
Reaction—neutral to moderately alkaline

Btb horizon

Hue—2.5Y, 5Y, 10YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, silty clay

Clay content—30 to 45 percent
Reaction—neutral, slightly alkaline

Lenz Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes and shoulders of mountains and hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 3 to 60 percent
Elevation: 1,700 to 3,600 feet
Average annual precipitation: 18 to 28 inches
Average annual air temperature: 46 to 49 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 0.5 inch; slightly decomposed needles, leaves, twigs, and cones.
Oe—0.5 to 1 inch; moderately decomposed organic matter.
A1—1 to 4 inches; dark grayish brown (10YR 4/2) very gravelly ashy sandy loam, very dark brown (10YR 2/2) moist; weak fine granular structure; soft, friable, nonsticky and slightly plastic; many very fine and fine and common medium and coarse roots; many very fine and fine tubular and irregular pores; 40 percent gravel; slightly acid; clear wavy boundary.
A2—4 to 9 inches; grayish brown (10YR 5/2) very gravelly ashy sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; many very fine and fine tubular and irregular pores; 40 percent gravel and 10 percent cobbles; slightly acid; clear wavy boundary.
Bw1—9 to 14 inches; pale brown (10YR 6/3) very gravelly ashy sandy loam, brown (10YR 4/3) moist; weak fine and medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and few fine and medium roots; common very fine and fine tubular and irregular pores; 30 percent gravel and 10 percent cobbles; neutral; clear wavy boundary.
Bw2—14 to 26 inches; very pale brown (10YR 7/3) very cobbly sandy loam, yellowish brown (10YR 5/4) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine and fine roots; common very fine tubular and irregular pores; 25 percent gravel and 25 percent cobbles; slightly acid; clear irregular boundary.
C—26 to 38 inches; very pale brown (10YR 7/3) extremely stony sandy loam, brown (10YR 5/3) moist; massive; slightly hard, friable, nonsticky and slightly plastic; few very fine, fine, and medium roots; many very fine tubular and irregular pores; 15 percent gravel, 20 percent cobbles, and 40 percent stones; moderately acid; abrupt wavy boundary.
2R—38 inches; hard, unweathered granitic gneiss.

Typical Pedon Location

Map unit in which located: Lenz-Rock outcrop complex, 30 to 60 percent slopes

Location in survey area: Spokane County, Washington, about 5 miles southwest of Mount Spokane, Washington; about 1,470 feet west and 1,480 feet north of the southeast corner of section 3, T. 27 N., R. 44 E.

Range in Characteristics

Profile
Depth to bedrock—20 to 40 inches (lithic)
Thickness of volcanic ash influence—10 to 18 inches
Clay content—8 to 12 percent in particle-size control section

A horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—8 to 12 percent
Gravel content—35 to 50 percent
Cobble content—0 to 10 percent
Total rock fragment content—35 to 50 percent
Reaction—slightly acid, neutral

Bw1 horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy loam
Clay content—6 to 12 percent
Gravel content—20 to 50 percent
Cobble content—0 to 15 percent
Total rock fragment content—35 to 60 percent
Reaction—slightly acid, neutral

Bw2 horizon
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Clay content—6 to 12 percent
Gravel content—15 to 50 percent
Cobble content—10 to 25 percent
Stone content—0 to 5 percent
Total rock fragment content—40 to 75 percent
Reaction—slightly acid, neutral

A Bt horizon is in some pedons.

C horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Clay content—4 to 8 percent
Gravel content—15 to 45 percent
Cobble content—20 to 25 percent
Stone content—5 to 40 percent
Total rock fragment content—50 to 80 percent
Reaction—moderately acid to neutral

A BC horizon is in some pedons.

Libertybutte Series

Depth class: Shallow
Drainage class: Well drained

Position on landscape: Backslopes, shoulders, and summits of mountains and hills
Parent material: Loess over colluvium derived from argillite, siltite, and fine-grained quartzite
Slope range: 5 to 30 percent
Elevation: 2,850 to 3,700 feet
Average annual precipitation: 20 to 25 inches
Average annual air temperature: 47 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Loamy, mixed, superactive, mesic Lithic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 4 inches; dark grayish brown (10YR 4/2) gravelly silt loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure parting to weak fine granular; soft, friable, nonsticky and nonplastic; many very fine and fine roots; common very fine and fine interstitial pores; 25 percent gravel; slightly acid (pH 6.4); clear smooth boundary.

Bt1—4 to 11 inches; brown (10YR 4/3) gravelly silt loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; common discontinuous faint clay films on faces of peds; 25 percent gravel; neutral (pH 6.6); clear smooth boundary.

Bt2—11 to 16 inches; brown (10YR 4/3) very gravelly silt loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure; moderately hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; common continuous distinct clay films on faces of peds and lining pores; 25 percent gravel and 10 percent channers; neutral (pH 6.8); abrupt smooth boundary.

Crt—16 to 19 inches; fractured, weathered metasedimentary rock with less than 5 percent soil material between fractures that are more than 4 inches apart; some clay films on weathered rock fragments; gradual wavy boundary.

R—19 inches; hard, fractured metasedimentary rock.

Typical Pedon Location

Map unit in which located: Libertybutte-Tekoa complex, 5 to 30 percent slopes
Location in survey area: Benewah County, Idaho, about 5 miles west of DeSmet, on the south flank of Liberty Butte; about 600 feet north and 1,200 feet west of the southeast corner of section 7, T. 44 N., R. 5 W.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 15 inches
Depth to bedrock (lithic)—12 to 20 inches
Depth to bedrock (paralithic)—12 to 19 inches

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—10 to 20 percent
Gravel content—15 to 30 percent
Reaction—slightly acid, neutral

Bt1 horizon
Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—silt loam, loam
Clay content—15 to 25 percent
Gravel content—15 to 30 percent
Reaction—slightly acid, neutral

Bt2 horizon
Hue—10YR, 7.5YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—silt loam, loam
Clay content—15 to 25 percent
Gravel content—15 to 30 percent
Channer content—0 to 10 percent
Cobble content—0 to 10 percent
Total rock fragment content—15 to 45 percent
Reaction—slightly acid, neutral

Lotuspoint Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes and shoulders of mountains, ridges, and hills
Parent material: Thin mantle of volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 5 to 65 percent
Elevation: 2,030 to 4,840 feet
Average annual precipitation: 28 to 40 inches
Average annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 140 days

Taxonomic class: Loamy-skeletal, isotic, mesic Andic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material consisting of needles, bark, leaves, twigs, and cones.
Oe—1 to 2 inches; moderately decomposed plant material mixed with 1980's Mount St. Helens volcanic ash.
A—2 to 4 inches; dark grayish brown (10YR 4/2) stony ashy silt loam, very dark brown (10YR 2/2) moist; weak very fine and fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and few medium and coarse roots; many very fine and fine and few medium tubular pores; 15 percent gravel, 5 percent cobbles, and 5 percent stones; slightly acid (pH 6.5); abrupt wavy boundary.
AB—4 to 10 inches; brown (10YR 4/3) stony ashy silt loam, dark brown (7.5YR 3/2) moist; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and few medium and coarse roots; many very fine and fine and few medium tubular pores; 5 percent gravel, 5 percent cobbles, and 15 percent stones; moderately acid (pH 6.0); clear wavy boundary.

2Bw1—10 to 16 inches; light yellowish brown (10YR 6/4) extremely stony silt loam, brown (7.5YR 4/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine and few medium and coarse roots; many very fine and fine and few medium and coarse tubular pores; 5 percent gravel, 25 percent cobbles, and 50 percent stones; moderately acid (pH 6.0); clear wavy boundary.
2Bw2—16 to 26 inches; light yellowish brown (10YR 6/4) extremely stony loam, brown (7.5YR 4/4) moist; weak medium and coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine and few medium and coarse roots; many very fine and fine, common medium, and few coarse tubular pores; few faint clay films lining pores; 5 percent gravel, 30 percent cobbles, and 50 percent stones; moderately acid (pH 6.0); abrupt irregular boundary.
2R—26 inches; fractured, fine-grained quartzite.

Typical Pedon Location

Map unit in which located: Lotuspoint stony ashy silt loam, 35 to 65 percent slopes, stony
Location in survey area: Benewah County, Idaho, about 7 miles southeast of Plummer; about 1,450 feet south and 1,450 feet east of the northwest corner of section 21, T. 46 N., R. 3 W.

Range in Characteristics

Profile
Depth to bedrock—20 to 40 inches (lithic)
Thickness of volcanic ash mantle—7 to 12 inches

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam
Clay content—3 to 8 percent
Gravel content—15 to 25 percent
Channer content—0 to 10 percent
Cobble content—0 to 10 percent
Stone content—0 to 10 percent
Total rock fragment content—15 to 30 percent
Reaction—slightly acid, neutral

AB horizon (where present)
Hue—10YR, 7.5YR
Value—4 or 5 dry, 3 moist
Chroma—3 or 4 dry, 2 or 3 moist
Texture—ashy silt loam
Clay content—3 to 8 percent
Gravel content—5 to 30 percent
Channer content—0 to 10 percent
Cobble content—0 to 15 percent
Stone content—0 to 20 percent
Total rock fragment content—25 to 55 percent
Reaction—moderately acid to neutral

2Bw horizon
Hue—10YR, 7.5YR
Value—6 or 7 dry, 4 or 5 moist

Chroma—3 or 4 moist
Texture—silt loam, loam
Clay content—3 to 10 percent
Gravel content—5 to 30 percent
Channer content—0 to 10 percent
Cobble content—25 to 50 percent
Stone content—0 to 50 percent
Total rock fragments content—50 to 85 percent
Reaction—moderately acid, slightly acid

2C horizon (where present)
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 moist
Texture—silt loam, loam
Clay content—3 to 10 percent
Gravel content—15 to 60 percent
Channer content—0 to 5 percent
Cobble content—20 to 70 percent
Stone content—0 to 30 percent
Flagstone content—0 to 15 percent
Total rock fragment content—60 to 90 percent
Reaction—moderately acid, slightly acid

Lovell Series

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Drainageways
Parent material: Mixed alluvium with an influence of loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Elevation: 2,580 to 3,230 feet
Average annual precipitation: 25 to 28 inches
Average annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Fine-silty, isotic, frigid Aquandic Epiaqualfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 8 inches; light brownish gray (10YR 6/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak medium granular structure; slightly hard, very friable, slightly sticky and slightly plastic; common very fine roots; many fine interstitial pores; moderately acid (pH 6.0); abrupt smooth boundary.
Eg1—8 to 14 inches; gray (10YR 6/1) ashy silt loam, very dark brown (10YR 2/2) moist; weak medium platy structure parting to weak fine subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; many fine tubular pores; common fine weakly cemented black (10YR 2/1) iron-manganese concretions; slightly acid (pH 6.4); clear smooth boundary.
Eg2—14 to 18 inches; gray (10YR 6/1) ashy silt loam, very dark gray (10YR 3/1) moist; massive; slightly hard, very friable, slightly sticky and slightly plastic; few very fine roots; many fine tubular pores; common fine weakly cemented black (10YR 2/1) iron-manganese concretions; slightly acid (pH 6.5); abrupt smooth boundary.

EBtg—18 to 22 inches; gray (10YR 6/1) silt loam, very dark grayish brown (10YR 3/2) moist; moderate medium platy structure; hard, friable, slightly sticky and slightly plastic; few very fine roots; many fine tubular pores; few very dark brown (10YR 2/2) clay films on faces of peds; common fine weakly cemented black (10YR 2/1) iron-manganese concretions; neutral (pH 6.7); abrupt smooth boundary.

Bt1—22 to 26 inches; light gray (10YR 7/2) silt loam, dark grayish brown (10YR 4/2) moist; weak fine and medium subangular blocky structure; hard, firm, slightly sticky and slightly plastic; many fine and very fine tubular pores; few distinct clay films along pores and few distinct very dark brown (10YR 2/2) clay films on faces of peds; neutral (pH 7.0); abrupt smooth boundary.

Bt2—26 to 34 inches; light gray (10YR 7/2) silt loam, dark grayish brown (10YR 4/2) moist; weak thin and medium platy structure; hard, firm, slightly sticky and slightly plastic; many fine tubular pores; few distinct clay films along pores and common continuous prominent very dark brown (10YR 2/2) clay films on faces of peds; neutral (pH 7.0); clear smooth boundary.

2Bt3—34 to 37 inches; light gray (10YR 7/2) loam, dark grayish brown (10YR 4/2) moist; weak thin platy structure; hard, firm, slightly sticky and slightly plastic; common very fine tubular pores; few distinct clay films along pores and common continuous prominent very dark grayish brown (10YR 3/2) clay films on faces of peds; neutral (pH 7.0); clear smooth boundary.

2Bt4—37 to 44 inches; light yellowish brown (10YR 6/4) loam, dark yellowish brown (10YR 4/4) moist; weak thin platy structure; slightly hard, firm, slightly sticky and slightly plastic; common very fine tubular pores; few distinct clay films along pores and few continuous prominent very dark gray (10YR 3/1) clay films on faces of peds; neutral (pH 6.7); clear smooth boundary.

2Bt5—44 to 51 inches; very pale brown (10YR 7/3) loam, brown (10YR 4/3) moist; weak thin platy structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine tubular pores; few distinct clay films along pores; common medium and coarse reddish brown (5YR 5/4) masses of oxidized iron; neutral (pH 6.8); abrupt smooth boundary.

2BC—51 to 60 inches; light gray (10YR 7/2) loam, pale brown (10YR 6/3) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; common very fine tubular pores; common fine weakly cemented black (10YR 2/1) iron-manganese concretions; many coarse reddish brown (5YR 5/4) and yellowish red (5YR 5/6) masses of oxidized iron; neutral (pH 6.9).

Typical Pedon Location

Map unit in which located: Latahco-Lovell complex, 0 to 3 percent slopes

Location in survey area: Benewah County, Idaho, about 1.5 miles northwest of Tensed and 300 feet west of U.S. Route 95, at Benewah Creek Road intersection; about 600 feet north and 45 feet east of the center of section 10, T. 44 N., R. 5 W.

Range in Characteristics

Profile

Depth to argillic horizon that perches water—15 to 25 inches

Depth to perched water table (episaturation)—12 to 20 inches in January through June

Depth to aquic conditions with chroma of 2 or less and redoximorphic concentrations—6 to 10 inches

Thickness of volcanic ash influence—12 to 20 inches

Ap horizon

Value—5 or 6 dry, 2 to 4 moist

Chroma—2 to 4 dry, 2 or 3 moist

Texture—ashy silt loam

Clay content—15 to 25 percent
Reaction—moderately acid to neutral

Eg horizon
Hue—10YR, 2.5Y
Value—6 dry, 2 to 4 moist
Chroma—1 dry, 1 or 2 moist
Texture—ashy silt loam
Clay content—15 to 24 percent
Reaction—moderately acid to neutral

EBtg horizon
Hue—10YR, 2.5Y
Value—6 dry, 2 to 4 moist
Chroma—1 or 2 dry or moist
Texture—silt loam
Clay content—18 to 25 percent
Reaction—moderately acid to neutral

Bt horizon
Hue—10YR
Value—6 or 7 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—20 to 30 percent
Reaction—slightly acid, neutral

2Bt2 horizon
Hue—10YR
Value—6 or 7 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—loam, silt loam, silty clay loam
Clay content—20 to 30 percent
Reaction—slightly acid, neutral

2BC horizon
Hue—10YR
Value—6 or 7 dry, 4 to 6 moist
Chroma—2 to 4 dry or moist
Texture—loam, silt loam
Clay content—16 to 25 percent
Reaction—slightly acid, neutral

Lovell Taxadjunct

Depth class: Very deep
Drainage class: Somewhat poorly drained
Position on landscape: Treads of drainageways
Parent material: Mixed alluvium with an influence of loess and volcanic ash in the upper part
Slope range: 0 to 3 percent
Elevation: 2,300 to 2,800 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Fine-silty, isotic, frigid Aquandic Haploxeralfs

Taxadjunct Features

The Lovell soils in this survey area are a taxadjunct to the series because they do not meet the criteria for the Aqualf suborder, which requires redoximorphic features in the upper 12 centimeters of the argillic horizon. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 2 inches; light brownish gray (10YR 6/2) ashy silt loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and moderately plastic; many very fine roots; many fine tubular pores; moderately acid; clear smooth boundary.

Ap2—2 to 8 inches; pale brown (10YR 6/3) ashy silt loam, dark grayish brown (10YR 4/2) moist; moderate medium platy structure; slightly hard, firm, slightly sticky and moderately plastic; common very fine and fine roots; common very fine and fine tubular pores; moderately acid; clear smooth boundary.

BE—8 to 19 inches; very pale brown (10YR 7/3) ashy silt loam, dark grayish brown (10YR 4/2) moist; weak medium subangular blocky structure; slightly hard, firm, slightly sticky and moderately plastic; few very fine and fine roots; common very fine tubular pores; few iron-manganese masses and concretions; neutral; abrupt smooth boundary.

E—19 to 24 inches; very pale brown (10YR 8/2) silt loam, grayish brown (10YR 5/2) moist; weak medium angular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; few fine and common very fine tubular pores and few very fine irregular pores; few iron-manganese masses and concretions; neutral; abrupt wavy boundary.

Bt/E—24 to 30 inches; light yellowish brown (10YR 6/4) silty clay loam, dark yellowish brown (10YR 4/4) moist (Btb part), and very pale brown (10YR 7/3) silty clay loam, brown (10YR 4/3) moist (E part); moderate medium subangular blocky structure; very hard, very firm, moderately sticky and moderately plastic; few very fine roots; few fine and common very fine irregular and tubular pores; 20 percent distinct skeletans and 30 percent distinct clay films on faces of peds; few iron depletions and masses of oxidized iron; neutral; clear wavy boundary.

Bt1—30 to 42 inches; light yellowish brown (10YR 6/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; strong medium subangular blocky structure; extremely hard, extremely firm, moderately sticky and moderately plastic; few very fine irregular and tubular pores; 30 percent distinct clay films on faces of peds; few iron depletions and masses of oxidized iron; neutral; gradual wavy boundary.

Bt2—42 to 52 inches; light yellowish brown (10YR 6/4) silty clay loam, yellowish brown (10YR 5/4) moist; moderate medium subangular blocky structure; very hard, extremely firm, moderately sticky and moderately plastic; few very fine tubular pores; 25 percent distinct clay films on faces of peds; common fine masses of oxidized iron and many medium iron depletions; neutral; clear wavy boundary.

Bt3—52 to 61 inches; pale brown (10YR 6/3) silty clay loam, brown (10YR 5/3) moist; weak medium subangular blocky structure; very hard, very firm, moderately sticky and moderately plastic; few very fine irregular pores; 20 percent faint clay films on faces of peds; common fine and medium masses of oxidized iron and many coarse iron depletions; neutral.

Typical Pedon Location

Map unit in which located: Lovell ashy silt loam, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 4.75 miles southeast of Mica Peak, about 1,500 feet southeast of Mica Peak Cemetery; about 840 feet south and 1,200 feet west of the northeast corner of section 11, T. 23 N., R. 45 E.

Range in Characteristics

Profile
Thickness of ochric epipedon—5 to 10 inches
Thickness of volcanic ash influence—7 to 20 inches
Depth to redoximorphic features—19 to 40 inches
Depth to top of perched water table—19 to 24 inches in January through April
Depth to top of argillic horizon that perches water—20 to 30 inches

Ap horizon
Hue—10YR, 2.5Y
Value—5 or 6 dry, 2 or 4 moist
Chroma—1 to 4 dry, 1 to 3 moist
Clay content—20 to 27 percent
Reaction—moderately acid, slightly acid

BE and E horizon
Value—7 or 8 dry, 4 or 5 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam, silt loam
Clay content—15 to 25 percent
Reaction—slightly acid, neutral

Bt/E horizon
Value of Btb part—5 or 6 dry, 3 or 4 moist
Value of E part—7 or 8 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, silt loam
Clay content—18 to 30 percent
Reaction—slightly acid, neutral

Bt horizon
Hue—10YR, 2.5Y
Value—6 or 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—loam, silty clay loam, silt loam
Clay content—18 to 35 percent
Reaction—neutral, slightly alkaline

Marble Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers on outwash plains, earthflows, and terraces
Parent material: Sandy glaciofluvial deposits
Slope range: 0 to 55 percent
Elevation: 1,540 to 2,500 feet
Average annual precipitation: 15 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Mixed, mesic Lamellic Xerospamments

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; litter of partially decomposed needles, leaves, and twigs.
A—1 to 4 inches; grayish brown (10YR 5/2) loamy sand, very dark grayish brown (10YR 3/2) moist; weak coarse granular structure; soft, very friable, nonsticky and nonplastic; many very fine, common fine, and few medium roots; common fine interstitial pores; slightly acid; clear wavy boundary.
E—4 to 8 inches; pale brown (10YR 6/3) loamy sand, brown (10YR 4/3) moist; massive; soft, very friable, nonsticky and nonplastic; common very fine and few medium and coarse roots; common fine interstitial pores; slightly acid; clear wavy boundary.
E and Bt1—8 to 27 inches; pale brown (10YR 6/3) sand, brown (10YR 4/3) moist (E part); single grain; loose, nonsticky and nonplastic; few faint irregular wavy continuous 1/8- to 1/4-inch-thick yellowish brown (10YR 5/6) bands of loamy coarse sand, dark yellowish brown (10YR 4/6) moist (Bt part); massive; soft, very friable, nonsticky and nonplastic; common very fine and few fine, medium, and coarse roots; common fine interstitial pores; neutral; gradual wavy boundary.
E and Bt2—27 to 53 inches; pale brown (10YR 6/3) sand, brown (10YR 4/3) moist (E part); single grain; loose, nonsticky and nonplastic; common prominent irregular wavy continuous 1/8- to 1/2-inch-thick yellowish brown (10YR 5/6) bands of loamy coarse sand, dark yellowish brown (10YR 4/6) moist (Bt part); massive; slightly hard, friable, nonsticky and nonplastic; few very fine and coarse roots; common fine interstitial pores; slightly acid; gradual wavy boundary.
C—53 to 60 inches; variegated sand; single grain; loose, nonsticky and nonplastic; few very fine roots; many fine interstitial pores; neutral.

Typical Pedon Location

Map unit in which located: Marble loamy sand, 8 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 1 mile east of the intersection of U.S. Route 2 and Day Mount Spokane Road; about 420 feet south and 400 feet west of the northeast corner of section 35, T. 27 N., R. 43 E.

Range in Characteristics

Profile
Thickness of ochric epipedon—5 to 15 inches
Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 to 4 moist
Chroma—2 or 3 dry or moist
Clay content—2 to 5 percent

E horizon
Value—6 or 7 dry
Chroma—3 or 4 dry or moist
Texture—loamy sand, sand, loamy coarse sand
Clay content—2 to 5 percent

E and Bt horizon
E part (90 to 95 percent of horizon):
Value—6 or 7 dry
Chroma—2 to 4 dry or moist

Texture—loamy sand, sand, loamy coarse sand, coarse sand
Clay content—0 to 2 percent
Fine gravel content—0 to 5 percent

Bt part (5 to 10 percent of horizon):
Value—4 or 5 dry or moist
Chroma—4 or 6 dry or moist
Texture—loamy sand, sand, loamy coarse sand, coarse sand
Combined thickness of lamellae—less than 6 inches

C horizon
Hue—10YR, 2.5Y, variegated
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—coarse sand, sand
Clay content—0 to 2 percent
Fine gravel content—0 to 5 percent
Lamellae—present in some pedons

Marblespring Series

Depth class: Very deep
Drainage class: Somewhat excessively drained
Position on landscape: Treads on outwash terraces
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 0 to 15 percent
Elevation: 1,540 to 2,100 feet
Average annual precipitation: 16 to 20 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Sandy-skeletal, mixed, mesic Typic Xerorthents

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 0.5 inch; slightly decomposed needles, leaves, and twigs.
A1—0.5 to 2 inches; brown (10YR 5/3) fine gravelly loamy coarse sand, very dark grayish brown (10YR 3/2) moist; weak medium granular structure; soft, very friable, nonsticky and nonplastic; common very fine roots; many fine and very fine interstitial pores; 5 percent medium and 25 percent fine subrounded gravel; moderately acid; gradual wavy boundary.
A2—2 to 7 inches; pale brown (10YR 6/3) fine gravelly loamy coarse sand, brown (10YR 4/3) moist; weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common fine and few medium roots; many fine interstitial pores; 5 percent medium and 25 percent fine subrounded gravel; moderately acid; clear wavy boundary.
E and Bt1—7 to 27 inches; very pale brown (10YR 7/3) very gravelly loamy coarse sand, brown (10YR 4/3) moist (E part); single grain; loose, nonsticky and nonplastic; five faint irregular wavy 1/8- to 1/4-inch-thick yellowish brown (10YR 5/4) loamy coarse sand lamellae, dark yellowish brown (10YR 4/4) moist (Bt part); massive; soft, very friable, nonsticky and nonplastic; common fine and medium roots; many fine interstitial pores; 5 percent medium and 35 percent fine subrounded gravel; 15 percent clay bridging sand grains in Bt part; slightly acid; gradual wavy boundary.

E and Bt2—27 to 51 inches; very pale brown (10YR 7/3) very gravelly loamy coarse sand, brown (10YR 4/3) moist (E part); single grain, loose, nonsticky and nonplastic; eight faint irregular wavy 1/8- to 1/4-inch-thick loamy coarse sand lamellae (Bt part); single grain; loose, nonsticky and nonplastic; common medium and coarse roots; many fine interstitial pores; 10 percent medium and 35 percent fine subrounded gravel; neutral; gradual wavy boundary.

C—51 to 60 inches; multicolored very gravelly coarse sand; single grain; loose, nonsticky and nonplastic; many medium interstitial pores; 5 percent medium and 30 percent fine subrounded gravel; neutral.

Typical Pedon Location

Map unit in which located: Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 1 mile northeast of Mead, Washington; about 2,500 feet east and 1,700 feet south of the northwest corner of section 26, T. 27 N., R. 43 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—3 to 7 inches

Rock fragment content—averages 35 to 55 percent in particle-size control section, dominantly fine gravel

Calcium carbonate and silica accumulations—on underside of some gravel

A horizon

Value—5 or 6 dry, 3 or 4 moist

Chroma—2 to 4 dry or moist

Clay content—5 to 10 percent

Fine gravel content—15 to 30 percent

Medium gravel content—0 to 5 percent

Total rock fragment content—15 to 35 percent

Reaction—moderately acid, slightly acid

E and Bt1 horizon

E part (90 to 98 percent of horizon):

Value—5 to 7 dry, 4 or 5 moist

Chroma—3 or 4 dry or moist

Texture—loamy coarse sand

Clay content—5 to 10 percent

Fine gravel content—30 to 45 percent

Medium gravel content—0 to 10 percent

Cobble content—0 to 2 percent

Total rock fragment content—35 to 55 percent

Bt part (2 to 10 percent of horizon):

Total thickness of lamellae—less than 6 inches

Reaction—slightly acid, neutral

E and Bt2 horizon

E part (90 to 98 percent of horizon):

Value—5 to 7 dry, 4 or 5 moist

Chroma—3 or 4 dry or moist

Texture—loamy coarse sand, coarse sand

Clay content—5 to 10 percent

Fine gravel content—30 to 45 percent

Medium gravel content—0 to 10 percent

Cobble content—0 to 2 percent
Total rock fragment content—35 to 55 percent

Bt part (2 to 10 percent of horizon):
Total thickness of lamellae—less than 6 inches
Reaction—slightly acid, neutral

C horizon
Texture—coarse sand
Clay content—0 to 3 percent
Fine gravel content—30 to 45 percent
Medium gravel content—0 to 5 percent
Cobble content—0 to 2 percent
Total rock fragment content—35 to 50 percent
Reaction—slightly acid, neutral
Few faint lamellae—may be present in some pedons

McCrosket Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes of mountains and hills
Parent material: Volcanic ash and loess over colluvium and residuum derived from fine-grained quartzite and siltite
Slope range: 15 to 65 percent
Elevation: 2,600 to 4,000 feet
Average annual precipitation: 20 to 35 inches
Average annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 140 days

Taxonomic class: Loamy-skeletal, isotic, frigid Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material.
Oe—1 to 2 inches; moderately decomposed plant material mixed with 1980's Mount St. Helens volcanic ash.
A1—2 to 5 inches; dark grayish brown (10YR 4/2) gravelly ashy silt loam, very dark brown (10YR 2/2) moist; weak fine granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine and common medium tubular pores; 25 percent gravel; slightly acid; gradual wavy boundary.
A2—5 to 12 inches; brown (10YR 5/3) gravelly ashy silt loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure; soft, friable, slightly sticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine and common medium tubular pores; 30 percent gravel; neutral; clear wavy boundary.
Bw1—12 to 20 inches; light brown (7.5YR 6/3) very cobbly silt loam, brown (7.5YR 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; common very fine and few fine and medium tubular pores; 25 percent gravel and 30 percent cobbles; moderately acid; gradual wavy boundary.
Bw2—20 to 32 inches; light brown (7.5YR 6/3) very cobbly silt loam, brown (7.5YR 4/3) moist; weak coarse subangular blocky structure; slightly hard, friable, slightly

sticky and slightly plastic; common very fine, fine, medium, and coarse roots; common very fine and few fine and medium tubular pores; 20 percent gravel and 35 percent cobbles; moderately acid; gradual wavy boundary.

BC—32 to 42 inches; pink (7.5YR 7/3) extremely cobbly loam, brown (7.5YR 5/3) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine, fine, and medium roots; common very fine and few fine tubular pores; 15 percent gravel and 45 percent cobbles; moderately acid; abrupt wavy boundary.

Cr—42 inches; fractured, weathered siltite.

Typical Pedon Location

Map unit in which located: Ardenvoir-McCrosket association, 35 to 65 percent slopes

Location in survey area: Benewah County, Idaho, about 0.5 mile northwest of Windfall Pass summit; about 1,900 feet south and 2,000 feet west of the northeast corner of section 16, T. 45 N., R. 4 W.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 17 inches
Depth to bedrock—40 to 60 inches (paralithic)

A horizon

Hue—10YR, 7.5YR
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—5 to 15 percent
Gravel content—15 to 30 percent
Cobble content—0 to 15 percent
Total rock fragment content—15 to 30 percent
Reaction—slightly acid, neutral

Bw horizon

Hue—7.5YR, 10YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, loam
Clay content—10 to 25 percent
Gravel content—20 to 35 percent
Cobble content—15 to 40 percent
Total rock fragment content—35 to 55 percent
Reaction—slightly acid, neutral

BC horizon

Hue—10YR, 7.5YR
Value—6 or 7 dry, 4 to 6 moist
Chroma—3 to 6 dry or moist
Texture—loam, silt loam
Clay content—5 to 20 percent
Gravel content—10 to 50 percent
Cobble content—20 to 50 percent
Stone—0 to 15 percent
Total rock fragment content—35 to 70 percent
Reaction—moderately acid, slightly acid

Micapeak Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Summits, shoulders, and backslopes of mountains, hills, and ridges
Parent material: Colluvium and residuum derived from granite, gneiss, and schist with an influence of loess and volcanic ash in the upper part
Slope range: 8 to 55 percent
Elevation: 1,700 to 4,200 feet
Average annual precipitation: 20 to 40 inches
Average annual air temperature: 41 to 50 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Coarse-loamy, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 0.75 inch; slightly decomposed needles, twigs, leaves, and cones.
Oe—0.75 to 1 inch; moderately decomposed organic matter mixed with a discontinuous minor amount of 1980's Mount St. Helens volcanic ash.
A—1 to 7 inches; grayish brown (10YR 5/2) gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine and common medium roots; many very fine and fine irregular and tubular pores; 5 percent fine mica flakes; 15 percent gravel; slightly acid; clear irregular boundary.
Bw1—7 to 13 inches; light yellowish brown (10YR 6/4) gravelly ashy loam, dark yellowish brown (10YR 3/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine irregular pores and few medium tubular pores; 10 percent fine mica flakes; 25 percent gravel; slightly acid; gradual wavy boundary.
Bw2—13 to 22 inches; light yellowish brown (10YR 6/4) gravelly loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine irregular pores and common very fine and fine tubular pores; 15 percent fine mica flakes; 20 percent gravel; moderately acid; clear wavy boundary.
BCt—22 to 33 inches; light yellowish brown (10YR 6/4) gravelly loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse angular blocky structure; hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; common very fine irregular pores and few fine tubular pores; 15 percent fine mica flakes; one discontinuous wavy 0.1- to 0.25-inch-thick band of loam that is dark yellowish brown (10YR 4/6) moist; 10 percent paragravel and 20 percent gravel; moderately acid; clear wavy boundary.
C—33 to 39 inches; very pale brown (10YR 7/4) gravelly sandy loam, yellowish brown (10YR 5/4) moist; massive; hard, friable, nonsticky and slightly plastic; few very fine, fine, and medium roots; many very fine irregular pores and few fine tubular pores; 15 percent fine mica flakes; pockets of material that is 50 percent fine mica flakes comprise about 5 percent of horizon; 15 percent paragravel and 15 percent gravel; moderately acid; abrupt wavy boundary.

Cr—39 inches; weathered micaceous gneiss and schist; no roots; can be dug with spade with moderate difficulty; rock structure clearly visible.

Typical Pedon Location

Map unit in which located: Quinnamose-Micapeak complex, 30 to 55 percent slopes
Location in survey area: Spokane County, Washington, about 1.5 miles west of Mica Peak and 0.75 mile south of Belmont Road; about 1,835 feet east and 1,480 feet north of the southwest corner of section 16, T. 24 N., R. 45 E.

Range in Characteristics

Profile
Thickness of volcanic ash influence—8 to 14 inches
Depth to bedrock (paralithic)—20 to 40 inches
Depth to bedrock (lithic)—40 to 60 inches or more
Clay content in particle-size control section—5 to 12 percent
Mica content—2 to 15 percent

A horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 or 3 dry or moist
Clay content—8 to 12 percent
Gravel content—15 to 25 percent
Reaction—moderately acid, slightly acid

Bw1 horizon
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy loam, ashy silt loam
Clay content—8 to 12 percent
Gravel content—10 to 25 percent
Total rock fragment content—10 to 25 percent
Reaction—moderately acid, slightly acid

Bw2 and BCt horizons
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam, coarse sandy loam
Clay content—5 to 12 percent
Gravel content—10 to 30 percent
Paragravel content—0 to 10 percent
Total rock fragment content—10 to 30 percent
Reaction—moderately acid, slightly acid

C horizon
Hue—10YR, 2.5Y
Value—6 to 8 dry, 5 to 7 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, coarse sandy loam
Clay content—5 to 10 percent
Gravel content—10 to 30 percent
Paragravel content—10 to 20 percent
Total rock fragment content—20 to 40 percent
Reaction—moderately acid, slightly acid

Mondovi Taxadjunct

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Drainageways
Parent material: Mixed alluvium derived from loess and a minor amount of volcanic ash
Slope range: 0 to 8 percent
Elevation: 2,000 to 2,700 feet
Mean annual precipitation: 15 to 22 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Coarse-silty, mixed, superactive, mesic Vitrandic Haploxerolls

Taxadjunct Features

The Mondovi soils in this survey area are a taxadjunct to the series because the surface layer has properties that meet the criteria for the Vitrandic subgroup. These soils have an assumed irregular decrease in organic carbon content (Cumulic subgroup). This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 17 inches; dark grayish brown (10YR 4/2) silt loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many fine and very fine roots; many fine and very fine irregular pores; noneffervescent; moderately acid; clear wavy boundary.
A2—17 to 26 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; moderate medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many fine and very fine roots; many fine and very fine irregular pores; noneffervescent; neutral; clear wavy boundary.
A3—26 to 38 inches; dark grayish brown (10YR 4/2) ashy silt loam, black (10YR 2/1) moist; massive; soft, very friable, slightly sticky and nonplastic; common fine and very fine roots; many fine and very fine irregular pores; noneffervescent; neutral; clear wavy boundary.
A4—38 to 48 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; massive; soft, very friable, slightly sticky and nonplastic; common fine and very fine roots; many fine and very fine irregular pores; noneffervescent; neutral; clear wavy boundary.
A5—48 to 60 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 3/3) moist; massive; soft, very friable, slightly sticky and nonplastic; cemented with silica; common fine and very fine roots; many fine and very fine irregular pores; noneffervescent; neutral.

Typical Pedon Location

Map unit in which located: Mondovi silt loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington; about 2 miles west of Cheney, Washington; about 1,300 feet east and 460 feet north of the southwest corner of section 3, T. 23 N, R. 41 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—40 to 60 inches or more
Depth to apparent water table—44 to 60 inches in March through April
Depth to redoximorphic features (where present)—44 to 60 inches or more

A1 horizon
Value—3 or 4 dry, 2 or 3 moist
Chroma—1 or 2 moist or dry
Clay content—12 to 20 percent
Reaction—moderately acid to neutral

A2 horizon
Value—3 or 4 dry, 2 or 3 moist
Chroma—1 or 2 moist or dry
Texture—ashy silt loam, silt loam
Clay content—12 to 20 percent
Reaction—moderately acid to neutral

A3 horizon
Value—3 or 4 dry, 2 or 3 moist
Chroma—1 to 3 moist or dry
Texture—ashy silt loam, silt loam
Clay content—8 to 18 percent
Reaction—neutral, slightly alkaline

A4 horizon
Value—3 or 4 dry, 2 or 3 moist
Chroma—1 to 3 moist or dry
Texture—ashy silt loam, silt loam
Clay content—6 to 18 percent
Reaction—neutral, slightly alkaline

A5 horizon
Value—3 to 5 dry, 2 to 4 moist
Chroma—2 to 4 dry or moist
Texture—ashy silt loam, silt loam
Clay content—5 to 18 percent
Gravel content—0 to 5 percent
Reaction—neutral, slightly alkaline

Morical Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Summits and shoulders of hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite and quartzite
Slope range: 0 to 30 percent
Elevation: 2,400 to 2,950 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine-loamy, mixed, superactive, mesic Vitrandic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 6 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; moderate thick platy structure; soft, very friable, slightly sticky and moderately plastic; common very fine roots throughout; common very fine irregular pores; moderately acid; abrupt smooth boundary.

AB—6 to 12 inches; brown (10YR 4/3) ashy silt loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; soft, very friable, slightly sticky and moderately plastic; common very fine roots throughout; common very fine and fine irregular pores; 1 percent subangular quartzite paragravel; moderately acid; clear wavy boundary.

2Bt1—12 to 18 inches; yellowish brown (10YR 5/4) silt loam, dark yellowish brown (10YR 3/4) moist; weak medium subangular blocky structure parting to moderate medium granular; slightly hard, friable, moderately sticky and moderately plastic; common very fine roots throughout; common very fine irregular pores; 30 percent clay films on faces of peds; 1 percent subangular quartzite paragravel; slightly acid; clear wavy boundary.

2Bt2—18 to 27 inches; light yellowish brown (10YR 6/4) very paragravelly sandy clay loam, dark yellowish brown (10YR 3/4) moist; weak fine subangular blocky structure; slightly hard, friable, moderately sticky and moderately plastic; common very fine roots in cracks; common very fine and fine irregular pores; 25 percent clay films on faces of peds; 35 percent subangular quartzite paragravel; slightly acid; abrupt wavy boundary.

2Cr—27 inches; decomposed quartzite.

Typical Pedon Location

Map unit in which located: Morical ashy silt loam, 0 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 2.5 miles southwest of Marshall, Washington; about 800 feet north and 500 feet east of the southwest corner of section 20, T. 24 N., R. 42 E.

Range in Characteristics

Profile

Depth to bedrock—20 to 40 inches (paralithic)
Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—10 to 20 inches
Reaction—moderately acid to neutral
Clay content in particle-size control section—18 to 35 percent
Hard rock fragment content in particle-size control section—averages less than 15 percent

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—15 to 25 percent
Paragravel content—0 to 5 percent

AB horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy loam, ashy silt loam, loam, silt loam
Clay content—15 to 25 percent

Paragravel content—0 to 5 percent
Gravel content—0 to 5 percent

2Bt horizon
Hue—7.5YR, 10YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—clay loam, loam, sandy loam, sandy clay loam, silt loam
Clay content—18 to 35 percent
Paragravel content—0 to 35 percent
Gravel content—0 to 15 percent

Naff Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits, backslopes, and footslopes of loess hills on basalt plateaus
Parent material: Holocene and late Pleistocene loess deposits
Slope range: 0 to 35 percent
Elevation: 2,200 to 2,880 feet
Average annual precipitation: 18 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 150 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Typic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 8 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; weak thick platy structure and moderate fine granular; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine pores; neutral; abrupt smooth boundary.

A—8 to 17 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; weak coarse prismatic structure and moderate fine granular; hard, friable, slightly sticky and moderately plastic; many very fine and fine roots; many very fine pores; slightly acid; clear wavy boundary.

BA—17 to 26 inches; brown (10YR 5/3) silt loam, dark brown (10YR 4/3) moist; moderate fine prismatic structure; hard, firm, moderately sticky and moderately plastic; many very fine and fine roots; many very fine pores; peds and pores coated with clean very fine sand and silt grains; few thin clay films visible below coatings on peds; neutral; gradual wavy boundary.

Bt1—26 to 61 inches; pale brown (10YR 6/3) silty clay loam, dark brown (10YR 4/3) moist; moderate medium prismatic structure parting to moderate fine angular blocky; very hard, firm, very sticky and very plastic; common fine roots; many very fine pores; prism faces coated with silt or very fine sand; thin clay films on blocks and in some pores; few black manganese stains and very fine manganese concretions; neutral; gradual wavy boundary.

Bt2—61 to 80 inches; pale brown (10YR 6/3) silty clay loam, brown (10YR 5/3) moist; moderate medium prismatic structure parting to moderate fine angular blocky; hard, firm, moderately sticky and moderately plastic; few fine roots; many very fine pores; thin continuous clay films on peds and in pores; common black manganese stains and very fine manganese concretions; neutral.

Typical Pedon Location

Map unit in which located: Naff-Thatuna complex, 8 to 25 percent slopes
Location in survey area: Spokane County, Washington, about 5.7 miles southeast of Fairfield, Washington; about 800 feet south and 85 feet west of the northeast corner of section 2, T. 21 N., R. 45 E.

Range in Characteristics

Profile
Depth of mollic epipedon—10 to 20 inches
Clay content in particle-size control section—25 to 35 percent

A horizon
Hue—10YR
Value—4 or 5 dry, 1 to 3 moist
Chroma—1 or 2 dry or moist
Clay content—15 to 25 percent
Reaction—moderately acid to neutral

BA horizon
Hue—10YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—20 to 30 percent
Reaction—slightly acid, neutral

Bt horizon
Hue—7.5YR, 10YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 to 6 dry or moist
Texture—silt loam, silty clay loam
Clay content—25 to 35 percent
Reaction—slightly acid to slightly alkaline
Sand and silt coatings—light gray very fine sand and silt; range from a few grains to 1 millimeter thick

Nakarna Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes and footslopes of mountains and hills
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from micaceous schist
Slope range: 15 to 60 percent
Elevation: 2,800 to 4,300 feet
Average annual precipitation: 25 to 32 inches
Average annual air temperature: 41 to 45 degrees F
Frost-free period: 60 to 110 days

Taxonomic class: Ashy over loamy, amorphic over micaceous, frigid Typic Udivitrands

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, leaves, and twigs.
Oe—1 to 3 inches; moderately decomposed organic material.

A—3 to 4 inches; yellowish brown (10YR 5/4) ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak fine granular structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine tubular and irregular pores; neutral; clear wavy boundary.

Bw1—4 to 15 inches; light yellowish brown (10YR 6/4) ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine, fine, and medium and few coarse roots; many very fine and fine irregular and tubular pores; 1 percent very fine mica flakes; slightly acid; gradual wavy boundary.

Bw2—15 to 19 inches; brownish yellow (10YR 6/6) ashy silt loam, dark yellowish brown (10YR 4/6) moist; weak medium and coarse subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine and fine roots; many very fine and fine irregular and tubular pores; 1 percent very fine mica flakes; neutral; abrupt wavy boundary.

2Bw3—19 to 33 inches; pale brown (10YR 6/3) sandy loam, brown (10YR 4/3) moist; weak coarse subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine and fine roots; many very fine irregular pores and common fine tubular pores; 20 percent fine mica flakes; 10 percent paragravel; neutral; clear wavy boundary.

2E and Bt—33 to 44 inches; very pale brown (10YR 6/3) paragravelly sandy loam, brown (10YR 4/3) moist (E part); weak medium and coarse subangular blocky structure; soft, friable, nonsticky and slightly plastic; few very fine and fine roots; many very fine tubular pores and common fine irregular pores; one discontinuous 2-millimeter-thick clay band that is light yellowish brown (10YR 6/4), dark yellowish brown (10YR 4/4) moist and in lower part of horizon (Bt part); 40 percent fine and medium mica flakes; 15 percent paragravel; slightly acid; gradual wavy boundary.

2BC—44 to 54 inches; light yellowish brown (10YR 6/4) paragravelly loamy coarse sand, dark yellowish brown (10YR 4/4) moist; weak coarse subangular blocky structure; soft, friable, nonsticky and nonplastic; few very fine and fine roots; many very fine and fine irregular pores; 60 percent fine and medium mica flakes; 25 percent paragravel; slightly acid; clear wavy boundary.

2Cr—54 inches; highly weathered, micaceous schist.

Typical Pedon Location

Map unit in which located: Nakarna ashy silt loam, 30 to 60 percent slopes

Location in survey area: Spokane County, Washington, about 3 miles east of Mica, Washington; about 615 feet west and 1,885 feet north of the southeast corner of section 20, T. 24 N., R. 45 E.

Range in Characteristics

Profile

Depth to bedrock—40 to 60 inches (paralithic)
Thickness of volcanic ash mantle—14 to 27 inches thick

A horizon

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Clay content—5 to 8 percent
Gravel content—0 to 10 percent
Reaction—slightly acid, neutral

Bw horizon

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist

Chroma—3 to 6 dry or moist
Clay content—5 to 8 percent
Gravel content—0 to 10 percent
Mica content—0 to 5 percent
Reaction—slightly acid, neutral

2Bw horizon, or 2Bt horizon (where present)
Hue—10YR, 7.5YR
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 to 6 dry or moist
Texture—loam, sandy loam, fine sandy loam
Clay content—4 to 14 percent
Gravel content—0 to 25 percent
Paragravel content—0 to 15 percent
Total rock fragment content—0 to 25 percent
Mica content—25 to 50 percent
Reaction—moderately acid to neutral

2E and Bt horizon (where present)
Hue—10YR, 7.5YR

E part:
Texture—loam, sandy loam
Clay content—4 to 16 percent
Gravel content—0 to 25 percent
Paragravel content—0 to 15 percent
Total rock fragment content—0 to 25 percent
Mica content—25 to 50 percent
Reaction—moderately acid to neutral

Bt part:
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist

2BC horizon, or 2C horizon (where present)
Value—6 to 8 dry, 4 to 6 moist
Chroma—3 to 6 dry or moist
Texture—sandy loam, loamy coarse sand
Clay content—2 to 8 percent
Gravel content—0 to 30 percent
Paragravel content—0 to 50 percent
Total rock fragment content—10 to 30 percent
Mica content—40 to 65 percent, by volume
Reaction—moderately acid to neutral

Narcisse Series

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Treads of drainageways
Parent material: Alluvium mixed with loess and volcanic ash in the upper part
Slope range: 0 to 8 percent
Elevation: 1,800 to 2,500 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 46 to 48 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Coarse-loamy, mixed, superactive, mesic Cumulic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 8 inches; dark gray (10YR 4/1) silt loam, black (10YR 2/1) moist; moderate fine granular structure; slightly hard, very friable, slightly sticky and slightly plastic; many fine roots; many very fine and fine tubular and irregular pores; slightly acid; clear smooth boundary.

A2—8 to 14 inches; dark grayish brown (10YR 4/2) silt loam, dark brown (10YR 2/2) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many fine roots; many very fine and fine tubular and irregular pores; neutral; abrupt smooth boundary.

A3—14 to 25 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; many fine roots; many very fine and fine tubular and irregular pores; neutral; clear wavy boundary.

AB—25 to 34 inches; brown (10YR 5/3) very fine sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; many fine roots; many very fine and fine tubular and irregular pores; few fine distinct masses of iron and manganese accumulation that are brown (7.5YR 4/4) moist; neutral; clear wavy boundary.

Bw—34 to 48 inches; brown (10YR 5/3) sandy loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common fine roots; common very fine and fine irregular pores; few fine distinct masses of iron and manganese accumulation that are brown (7.5YR 4/4) moist; neutral; abrupt wavy boundary.

C—48 to 60 inches; brown (10YR 5/3) sandy loam, dark brown (10YR 3/3) moist; massive; soft, very friable, nonsticky and nonplastic; common fine roots; common very fine and fine irregular pores; few fine distinct masses of iron and manganese accumulation that are brown (7.5YR 4/4) moist; neutral.

Typical Pedon Location

Map unit in which located: Narcisse silt loam, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 2.5 miles south of Veradale, Washington; about 1,800 feet north and 725 feet west of the southeast corner of section 35, T. 25 N., R. 44 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—20 to 40 inches or more
Depth to apparent water table—34 to 48 inches in February through March
Depth to redoximorphic features—20 to 40 inches
Clay content in particle-size control section—7 to 11 percent
Reaction—slightly acid, neutral

A horizon

Value—3 to 5 dry, 2 or 3 moist
Chroma—1 or 2 dry or moist
Texture—silt loam in upper part, silt loam or loam in lower part
Clay content—10 to 16 percent
Gravel content—0 to 10 percent

An Ap horizon is in some pedons.

AB horizon (where present)
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—silt loam, loam, very fine sandy loam
Clay content—4 to 8 percent
Gravel content—0 to 10 percent

Bw horizon
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam
Clay content—2 to 7 percent
Gravel content—0 to 14 percent

C horizon (where present)
Value—5 to 7 dry, 3 to 6 moist
Chroma—2 to 4 dry or moist
Texture—loam, sandy loam, fine sandy loam
Clay content—2 to 7 percent
Gravel content—0 to 14 percent
Redoximorphic features—few fine faint to many medium distinct

Nez Perce Taxadjunct

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Summits and footslopes of loess hills on basalt plateaus
Parent material: Loess with an influence of volcanic ash over older loess
Slope range: 0 to 8 percent
Elevation: 2,340 to 2,700 feet
Average annual precipitation: 18 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine, mixed, superactive, mesic Xeric Argialbolls

Taxadjunct Features

The Nez Perce soils in this survey area are a taxadjunct to the series because they do not have smectitic mineralogy. This difference, however, does not significantly affect the use, management, or interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 6 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; moderate coarse granular structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and common fine roots; many fine irregular pores and few medium tubular pores; slightly acid; clear smooth boundary.

Ap2—6 to 10 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; moderate medium platy structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and common fine roots; many fine irregular pores and few medium tubular pores; slightly acid; abrupt smooth boundary.

E—10 to 19 inches; light brownish gray (10YR 6/2) silt loam, dark grayish brown (10YR 4/2) moist; weak very coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and few fine roots; common fine irregular pores; 3 percent rounded gravel; neutral; gradual smooth boundary.

Btb—19 to 30 inches; light brown (7.5YR 6/3) silty clay, brown (7.5YR 4/3) moist; strong very coarse prismatic structure; extremely hard, very firm, very sticky and very plastic; common fine and very fine roots between peds; common fine irregular pores; 85 percent distinct clay films that are dark yellowish brown (10YR 3/4) moist and on faces of peds; 1 percent fine spherical black (10YR 2/1) iron-manganese concretions; neutral; E horizon material tongues into coarse prisms of horizon; gradual smooth boundary.

Btkb1—30 to 42 inches; pale brown (10YR 6/3) silty clay, brown (10YR 4/3) moist; strong coarse and medium prismatic structure; extremely hard, very firm, very sticky and very plastic; few very fine roots; common fine irregular pores; 80 percent distinct clay films that are dark yellowish brown (10YR 3/4) moist and on faces of peds; 10 percent medium spherical black (10YR 2/1) iron-manganese concretions; 10 percent fine carbonate concretions; moderately alkaline; noneffervescent; gradual smooth boundary.

Btkb2—42 to 60 inches; pale brown (10YR 6/3) silty clay, brown (10YR 4/3) moist; moderate medium prismatic structure parting to moderate medium subangular blocky; extremely hard, very firm, very sticky and very plastic; few very fine roots; common fine irregular pores; 80 percent distinct clay films that are dark yellowish brown (10YR 3/4) moist and on faces of peds; 10 percent medium spherical black (10YR 2/1) iron-manganese concretions; 10 percent fine carbonate concretions; moderately alkaline; noneffervescent.

Typical Pedon Location

Map unit in which located: Nez Perce ashy silt loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 2 miles northeast of the town of Millwood, Washington; about 2,400 feet west and 2,400 feet north of the southeast corner of section 28, T. 26 N., R. 44 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 18 inches

Depth to argillic horizon that perches water—16 to 26 inches

Thickness of volcanic ash influence—10 to 18 inches

Depth to perched water table—10 to 18 inches in April, more than 10 inches in December through March

Depth to redoximorphic features—10 to 24 inches

Depth to albic horizon—10 to 18 inches

Depth to secondary calcium carbonates—30 to 38 inches

A horizon

Value—4 or 5 dry, 2 or 3 moist

Chroma—2 or 3 dry or moist

Clay content—10 to 20 percent

Reaction—slightly acid, neutral

E horizon

Value—6 or 7 dry, 4 or 5 moist

Clay content—13 to 18 percent

Gravel content—0 to 10 percent
Reaction—slightly acid, neutral

Btb horizon
Hue—7.5YR, 10YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—silty clay, silty clay loam
Clay content—35 to 55 percent
Gravel content—0 to 5 percent
Reaction—neutral, slightly alkaline

Btkb horizon
Hue—7.5YR, 10YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—silty clay, silty clay loam, clay
Clay content—35 to 60 percent
Gravel content—0 to 5 percent
Reaction—slightly alkaline to strongly alkaline

Northstar Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Summits, shoulders, footslopes, and backslopes of basalt plateaus
Parent material: Loess with an influence of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 30 percent
Elevation: 1,800 to 2,550 feet
Average annual precipitation: 15 to 19 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Loamy-skeletal, mixed, superactive, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed pine needles and cones.
Oe—1 to 3 inches; partially decomposed needles and twigs.
A1—3 to 6 inches; dark gray (10YR 4/1) extremely cobbly ashy loam, black (10YR 2/1) moist; moderate medium granular structure; slightly hard, very friable, nonsticky and nonplastic; few fine and common very fine roots; common very fine irregular and tubular pores; 25 percent gravel and 45 percent cobbles; moderately acid; clear wavy boundary.
A2—6 to 11 inches; grayish brown (10YR 5/2) extremely cobbly ashy loam, very dark gray (10YR 3/1) moist; moderate medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; few fine and common very fine and medium roots; few fine and medium irregular pores and common very fine tubular pores; 25 percent gravel and 40 percent cobbles; moderately acid; clear smooth boundary.
BA—11 to 17 inches; brown (10YR 5/3) very gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; few fine and common very fine,

medium, and coarse roots; few fine and common very fine tubular pores; 35 percent gravel and 15 percent cobbles; slightly acid; clear smooth boundary.

2Bw—17 to 26 inches; light yellowish brown (10YR 6/4) extremely gravelly loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; moderately hard, very friable, nonsticky and slightly plastic; few fine and common very fine and medium roots; few fine and common very fine tubular and irregular pores; 40 percent gravel and 20 percent cobbles; neutral; abrupt wavy boundary.

2R—26 inches; indurated basalt.

Typical Pedon Location

Map unit in which located: Northstar-Rock outcrop-Rockly complex, 0 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 2.5 miles east of Airway Heights, Washington; about 2,250 feet south and 2,350 feet east of the northwest corner of section 20, T. 25 N., R. 42 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—7 to 17 inches
Depth to bedrock—20 to 40 inches (lithic)

A horizon

Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—7 to 12 percent
Gravel content—20 to 30 percent
Cobble content—40 to 60 percent
Total rock fragment content—60 to 80 percent
Reaction—moderately acid, slightly acid

BA and Bw horizons (where present)

Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 dry or moist
Clay content—10 to 15 percent
Gravel content—25 to 40 percent
Cobble content—10 to 35 percent
Total rock fragment content—35 to 75 percent
Reaction—slightly acid

2Bw horizon

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—10 to 15 percent
Gravel content—20 to 55 percent
Cobble content—15 to 35 percent
Total rock fragment content—50 to 85 percent
Reaction—slightly acid, neutral

2C horizon (where present)

Texture—loam, sandy loam
Total rock fragment content—60 to 80 percent

Opportunity Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Risers and treads of outwash plains
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 15 percent
Elevation: 1,800 to 2,200 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 7 inches; very dark grayish brown (10YR 3/2) very gravelly ashy loam, black (10YR 2/1) moist; moderate fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and few fine, medium, and coarse roots; common very fine tubular and irregular pores; 50 percent gravel; strongly acid; abrupt smooth boundary.

A1—7 to 13 inches; dark grayish brown (10YR 4/2) extremely gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine roots; common very fine irregular pores and few very fine tubular pores; 60 percent gravel; moderately acid; clear smooth boundary.

A2—13 to 19 inches; brown (10YR 5/3) extremely gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; common very fine roots; common very fine irregular pores and few very fine tubular pores; 60 percent gravel; moderately acid; clear smooth boundary.

Bw1—19 to 33 inches; yellowish brown (10YR 5/4) extremely gravelly loam, dark brown (10YR 3/3) moist; moderate fine and medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; common very fine roots; common very fine irregular and tubular pores; 55 percent gravel and 5 percent cobbles; slightly acid; clear wavy boundary.

Bw2—33 to 43 inches; brown (10YR 5/4) extremely gravelly loam, brown (10YR 4/3) moist; moderate fine and medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; common very fine roots; few fine and common very fine and medium irregular pores; 50 percent gravel and 15 percent cobbles; slightly acid; clear wavy boundary.

Bq—43 to 53 inches; pale brown (10YR 6/3) extremely gravelly loamy coarse sand, brown (10YR 4/3) moist; single grain; soft, very friable, nonsticky and nonplastic; common very fine roots; few fine and common very fine, medium, and coarse interstitial pores; 2 percent distinct silica accumulations that are white (10YR 8/1) moist and on underside of rock fragments; 60 percent gravel and 15 percent cobbles; neutral; clear wavy boundary.

BCk—53 to 60 inches; multicolored; extremely gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few very fine roots; few fine and common very fine, medium, and coarse interstitial pores; 3 percent prominent carbonate coatings that are white (10YR 8/1) moist and on underside of rock fragments; violently effervescent; 65 percent gravel and 15 percent cobbles; slightly alkaline.

Typical Pedon Location

Map unit in which located: Opportunity very gravelly ashy loam, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 3 miles east of Otis Orchards, Washington; about 1,950 feet north and 1,300 feet east of the southwest corner of section 6, T. 25 N., R. 46 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 20 inches
Thickness of cambic horizon—20 to 30 inches
Thickness of volcanic ash influence—10 to 20 inches
Depth to secondary carbonates—44 to 60 inches or more
Depth to sandy-skeletal horizons—36 to 60 inches

Some pedons have a very stony surface.

Ap horizon (where present)
Value—3 or 4 dry, 2 or 3 moist
Chroma—2 or 3 dry, 1 or 2 moist
Clay content—8 to 12 percent
Gravel content—35 to 60 percent
Cobble content—0 to 5 percent
Total rock fragment content—35 to 60 percent
Reaction—strongly acid to slightly acid

A horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry, 1 or 2 moist
Clay content—8 to 12 percent
Gravel content—40 to 65 percent
Cobble content—0 to 10 percent
Total rock fragment content—40 to 75 percent
Reaction—moderately acid to neutral

Bw horizon
Value—5 to 7 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam
Clay content—6 to 10 percent
Gravel content—40 to 75 percent
Cobble content—0 to 15 percent
Total rock fragment content—40 to 80 percent
Reaction—slightly acid, neutral

Bq horizon
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy coarse sand, coarse sandy loam
Clay content—0 to 5 percent
Gravel content—40 to 75 percent
Cobble content—0 to 15 percent
Total rock fragment content—40 to 85 percent
Reaction—slightly acid, neutral

BCk horizon
Hue—10YR, multicolored
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—coarse sand, loamy coarse sand
Clay content—0 to 5 percent
Gravel content—55 to 75 percent
Cobble content—5 to 30 percent
Stone content—0 to 5 percent
Total rock fragment content—60 to 90 percent
Reaction—neutral, slightly alkaline
Content of calcium carbonate and silica coatings—2 to 25 percent on underside of rock fragments in some pedons

Peone Series

Depth class: Very deep
Drainage class: Poorly drained
Position on landscape: Flood plains, drainageways, depressions
Parent material: Alluvium mixed with volcanic ash and loess in the upper part
Slope range: 0 to 3 percent
Elevation: 1,540 to 2,500 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 46 to 48 degrees F
Frost-free period: 80 to 130 days

Taxonomic class: Ashy, glassy, nonacid, mesic Aquandic Endoaquepts (fig. 29)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 6 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; moderate thin platy structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; common fine roots; many very fine and fine irregular and tubular pores; slightly acid; abrupt smooth boundary.

Bw—6 to 11 inches; light brownish gray (10YR 6/2) ashy silt loam, dark grayish brown (10YR 4/2) moist; moderate thin platy structure parting to moderate medium granular; slightly hard, friable, slightly sticky and slightly plastic; common fine roots; common very fine and fine irregular pores; neutral; abrupt smooth boundary.

Bg1—11 to 30 inches; gray (10YR 6/1) ashy silt loam, dark gray (10YR 4/1) moist; massive; hard, friable, slightly sticky and slightly plastic; few fine roots; common very fine and fine irregular pores; 20 percent medium distinct masses of iron and manganese accumulation that are strong brown (7.5YR 5/6), brown (7.5YR 4/4) moist; neutral; clear wavy boundary.

Bg2—30 to 42 inches; light gray (2.5Y 7/2) ashy very fine sandy loam, grayish brown (2.5Y 5/2) moist; massive; slightly hard, friable, nonsticky and nonplastic; few roots; common very fine and fine irregular pores; 20 percent medium distinct masses of iron and manganese accumulation that are strong brown (7.5YR 5/6), brown (7.5YR 4/4) moist; slightly acid; clear wavy boundary.

2Cg—42 to 60 inches; light gray (2.5Y 7/2) loamy coarse sand, grayish brown (2.5Y 5/2) moist; massive; soft, friable; 20 percent medium prominent masses of iron and manganese accumulation that are strong brown (7.5YR 5/6), brown (7.5YR 4/4) moist; common very fine and fine irregular pores; moderately acid.

Figure 29.—Typical profile of a Peone soil.

Typical Pedon Location

Map unit in which located: Peone-Saltese complex, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 2 miles southwest of Peone, Washington; about 340 feet west and 2,200 feet south of the northeast corner of section 5, T. 26 N., R. 44 E.

Range in Characteristics

Profile

Depth of volcanic ash influence mixed with loess—20 to 30 inches
Depth to apparent water table—10 to 20 inches in February through May, more than 20 inches in June through January
Depth to redoximorphic features—10 to 20 inches
Depth to sandy material—40 to 60 inches or more

A horizon

Hue—10YR, 2.5Y
Value—5 or 6 dry, 2 to 4 moist
Chroma—1 or 2 dry or moist

Clay content—15 to 22 percent
Reaction—slightly acid, neutral

Bw horizon
Hue—10YR, 2.5Y
Value—5 to 7 dry, 4 to 5 moist
Chroma—1 to 3 dry or moist
Texture—ashy silt loam, ashy very fine sandy loam
Clay content—10 to 20 percent
Reaction—slightly acid, neutral

Bg horizon
Hue—10YR, 2.5Y
Value—5 to 8 dry, 4 to 6 moist
Chroma—1 or 2 dry or moist
Texture—ashy silt loam, ashy very fine sandy loam
Clay content—6 to 20 percent
Reaction—slightly acid, neutral

Strata of pumicite, diatomite, or volcanic ash in some pedons.

2Cg horizon
Hue—10YR, 2.5Y, 5Y
Value—5 to 8 dry, 4 to 6 moist
Chroma—1 or 2 dry or moist
Texture—loamy coarse sand with thin strata of silt loam, very fine sandy loam, fine sandy loam, or sandy loam
Clay content—4 to 8 percent
Reaction—moderately acid to neutral

Phoebe Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash plains
Parent material: Sandy glaciofluvial deposits mixed with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 15 percent
Elevation: 1,700 to 2,500 feet
Average annual precipitation: 15 to 23 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Coarse-loamy, mixed, superactive, mesic Vitrandic Haploxerolls (fig. 30)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 8 inches; dark gray (10YR 4/1) ashy sandy loam, black (10YR 2/1) moist; weak fine granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine roots; few fine tubular and irregular pores; slightly acid; abrupt smooth boundary.
A—8 to 16 inches; dark grayish brown (10YR 4/2) ashy sandy loam, very dark brown (10YR 2/2) moist; weak medium granular structure; soft, very friable, slightly sticky and slightly plastic; many fine roots; many fine irregular pores; slightly acid; clear wavy boundary.

Figure 30.—Typical profile of a Phoebe soil. Numerals on tape indicate centimeters.

Bw1—16 to 25 inches; brown (10YR 5/3) fine sandy loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; common fine roots; many fine irregular pores; neutral; gradual wavy boundary.

Bw2—25 to 34 inches; light yellowish brown (10YR 6/4) sandy loam, dark yellowish brown (10YR 4/4) moist; weak medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; common fine roots; many fine irregular pores; neutral; gradual wavy boundary.

C1—34 to 44 inches; light yellowish brown (10YR 6/4) loamy sand, dark yellowish brown (10YR 4/4) moist; massive; soft, very friable, nonsticky and nonplastic;

common fine roots; common fine interstitial pores; neutral; gradual wavy boundary.
C2—44 to 60 inches; very pale brown (10YR 7/4) sand, yellowish brown (10YR 5/4) moist; single grain; loose; few fine roots; common fine interstitial pores; neutral.

Typical Pedon Location

Map unit in which located: Phoebe ashy sandy loam, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 3.5 miles northwest of Colbert, Washington; about 2,500 feet east and 1,050 feet north of the southwest corner of section 7, T. 27 N., R. 43 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—20 to 30 inches
Thickness of volcanic ash influence—12 to 20 inches
Clay content in particle-size control section—5 to 15 percent
Total rock fragment content in particle-size control section—0 to 10 percent
Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—5 to 15 percent
Gravel content—0 to 5 percent

Bw1 horizon
Value—4 to 5 dry, 2 or 3 moist
Chroma—2 to 4 dry or moist
Texture—fine sandy loam, sandy loam
Clay content—5 to 15 percent
Gravel content—0 to 5 percent

Bw2 horizon
Value—4 to 7 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—fine sandy loam, sandy loam
Clay content—5 to 15 percent
Gravel content—0 to 5 percent

C horizon
Hue—10YR, 2.5Y
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—loamy sand, sand
Clay content—1 to 8 percent
Gravel content—0 to 10 percent

Pinecreek Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes of mountains
Parent material: Thick volcanic ash mantle over colluvium and residuum derived from siltite and fine-grained quartzite

Slope range: 20 to 75 percent
Elevation: 2,210 to 4,450 feet
Average annual precipitation: 23 to 51 inches
Average annual air temperature: 44 to 46 degrees F
Frost-free period: 95 to 125 days

Taxonomic class: Ashy over loamy-skeletal, glassy over isotic, frigid Humic Vitrixerands

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material consisting of needles, leaves, bark, twigs, and cones.

Oe—1 to 2 inches; moderately decomposed plant material mixed with 1980's Mount St. Helens volcanic ash.

A1—2 to 6 inches; brown (10YR 4/3) gravelly ashy silt loam, very dark brown (10YR 2/2) moist; weak very fine and fine granular structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine tubular pores; 20 percent gravel; neutral; abrupt wavy boundary.

A2—6 to 12 inches; brown (10YR 5/3) gravelly ashy silt loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine tubular pores; 25 percent gravel; neutral; clear wavy boundary.

Bw1—12 to 19 inches; light yellowish brown (10YR 6/4) gravelly ashy silt loam, dark yellowish brown (10YR 3/4) moist; weak medium and coarse subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine and few medium tubular pores; 20 percent gravel and 10 percent channers; slightly acid; gradual wavy boundary.

Bw2—19 to 24 inches; light yellowish brown (10YR 6/4) gravelly ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine and fine and few medium tubular pores; 25 percent gravel and 5 percent channers; slightly acid; abrupt wavy boundary.

2Bw3—24 to 30 inches; very pale brown (10YR 7/4) very gravelly loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine and common medium tubular pores; 40 percent gravel and 5 percent channers; moderately acid; gradual wavy boundary.

2C1—30 to 39 inches; light yellowish brown (10YR 6/4) extremely flaggy loam, dark yellowish brown (10YR 4/4) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine and common medium tubular pores; 35 percent gravel, 10 percent cobbles, and 20 percent flagstones; moderately acid; gradual wavy boundary.

2C2—39 to 59 inches; very pale brown (10YR 7/4) extremely cobbly loam, yellowish brown (10YR 5/4) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; few very fine, fine, and medium roots; many very fine and fine and

common medium tubular pores; 35 percent gravel, 30 percent cobbles, and 5 percent stones; moderately acid; gradual wavy boundary.

2C3—59 to 70 inches; very pale brown (10YR 7/4) extremely gravelly loam, yellowish brown (10YR 5/4) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; few very fine, fine, and medium roots; many very fine and fine and common medium tubular pores; 55 percent gravel and 10 percent cobbles; strongly acid.

Typical Pedon Location

Map unit in which located: Pinecreek gravelly ashy silt loam, moist, 35 to 65 percent slopes

Location in survey area: Benewah County, Idaho, about 2.75 miles southwest of St. Maries, Idaho; about 50 feet north and 1,670 feet east of the southwest corner of section 32, T. 46 N., R. 2 W.

Range in Characteristics

Profile

Thickness of umbric epipedon—10 to 15 inches
Thickness of volcanic ash mantle—14 to 22 inches

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam
Clay content—3 to 8 percent
Gravel content—5 to 30 percent
Total rock fragment content—5 to 30 percent
Reaction—slightly acid, neutral

Bw horizon

Value—5 or 6 dry, 3 or 4 moist
Texture—ashy silt loam
Clay content—3 to 8 percent
Gravel content—5 to 25 percent
Channer content—0 to 10 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 30 percent
Reaction—slightly acid, neutral

2Bw horizon

Value—6 or 7 dry, 4 or 5 moist
Texture—loam, silt loam
Clay content—3 to 10 percent
Gravel content—25 to 50 percent
Cobble content—0 to 25 percent
Channer content—0 to 10 percent
Total rock fragment content—40 to 65 percent
Reaction—moderately acid, slightly acid

2C horizon

Value—6 or 7 dry, 4 or 5 moist
Texture—loam, sandy loam, silt loam
Clay content—3 to 10 percent
Gravel content—30 to 60 percent
Cobble content—10 to 40 percent
Stone content—0 to 20 percent

Flagstone content—0 to 20 percent
Total rock fragment content—65 to 85 percent
Reaction—strongly acid to slightly acid

Pywell Series

Depth class: Very deep
Drainage class: Very poorly drained
Position on landscape: Treads of drainageways and flood plains
Parent material: Decomposed herbaceous and woody material mixed with a minor amount of mineral material
Slope range: 0 to 2 percent
Elevation: 1,820 to 2,190 feet
Average annual precipitation: 20 to 25 inches
Average annual air temperature: 42 to 44 degrees F
Frost-free period: 80 to 110 days

Taxonomic class: Euic, frigid Typic Haplosaprists

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oa1—0 to 6 inches; black (10YR 2/1) herbaceous muck (highly decomposed plant material) broken face and rubbed, very dark grayish brown (10YR 3/2) dry; about 10 percent fiber, 5 percent rubbed; weak fine granular structure; nonsticky and nonplastic; many very fine and fine roots; very strongly acid; clear wavy boundary.

Oa2—6 to 14 inches; very dark brown (10YR 2/2) muck (highly decomposed plant material) broken face, very dark brown (10YR 2/2) rubbed, dark brown (10YR 3/3) dry; about 20 percent fiber, 2 percent rubbed; moderate medium subangular blocky structure; nonsticky and nonplastic; many very fine and fine and few medium roots; thin volcanic ash lens at bottom of horizon; very strongly acid; abrupt wavy boundary.

Oa3—14 to 27 inches; dark brown (10YR 3/3) muck (highly decomposed plant material) broken face, dark brown (7.5YR 3/2) rubbed, brown (10YR 5/3) dry; about 25 percent fiber, 2 percent rubbed; 20 percent volcanic ash; moderate thick platy structure; nonsticky and nonplastic; many very fine and fine roots; 2 percent dark yellowish brown (10YR 4/6) and 5 percent brownish yellow (10YR 6/8) masses of oxidized iron; very strongly acid; abrupt wavy boundary.

Oe—27 to 31 inches; dark brown (10YR 3/3) mucky peat (moderately decomposed plant material) broken face, very dark brown (10YR 2/2) rubbed, dark yellowish brown (10YR 4/4) dry; about 75 percent fiber, 35 percent rubbed; massive; nonsticky and nonplastic; few very fine roots; light brownish gray (10YR 6/2) iron depletions; very strongly acid; gradual wavy boundary.

Oa4—31 to 45 inches; dark yellowish brown (10YR 4/6) muck (highly decomposed plant material) broken face, very dark grayish brown (10YR 3/2) rubbed, dark grayish brown (10YR 4/2) dry; about 30 percent fiber, 15 percent rubbed; massive; nonsticky and nonplastic; few very fine roots; very strongly acid; gradual wavy boundary.

Oa5—45 to 60 inches; dark yellowish brown (10YR 4/4) muck (highly decomposed plant material) broken face, very dark grayish brown (10YR 3/2) rubbed and dry; about 20 percent fiber, 5 percent rubbed; massive; nonsticky and nonplastic; few very fine roots; moderately acid.

Typical Pedon Location

Map unit in which located: Pywell-Bellslake complex, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 3 miles north of Moab, Washington; about 1,800 feet west and 1,800 feet north of the southeast corner of section 11, T. 26 N., R. 45 E.

Range in Characteristics

Profile
Thickness of organic material—50 to 60 inches or more
Depth to apparent water table—soil surface to a depth of 6 inches in January through June, more than 6 inches in July through December

Some pedons contain discontinuous layers of limnic material mixed with volcanic ash and diatoms.

Oa horizon
Hue—10YR, 7.5YR
Value—2 to 4 moist, 3 to 5 dry
Chroma—1 to 3 moist, 2 to 6 dry
Unrubbed fiber content—10 to 50 percent
Rubbed fiber content—2 to 15 percent
Reaction—very strongly acid to moderately acid

The Oa horizon may have thin lenses of volcanic ash or other mineral soil material in the upper part.

Oe horizon (where present)
Value—2 to 4 moist
Chroma—1 to 4 moist
Unrubbed fiber content—60 to 75 percent
Rubbed fiber content—35 to 45 percent
Reaction—very strongly acid to moderately acid

Quinnamose Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes of mountains and hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from granite and schist
Slope range: 15 to 55 percent
Elevation: 2,000 to 3,800 feet
Average annual precipitation: 22 to 35 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Coarse-loamy, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, leaves, and twigs.
Oe—1 to 3 inches; moderately decomposed plant material.
A—3 to 9 inches; grayish brown (10YR 5/2) ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; soft, friable, slightly

sticky and slightly plastic; many very fine, fine, and medium roots; many very fine and fine tubular and irregular pores; 1 percent fine mica flakes; 2 percent gravel; slightly acid; clear wavy boundary.

BA—9 to 12 inches; pale brown (10YR 6/3) ashy sandy loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine, fine, medium, and coarse roots; many very fine and fine tubular and irregular pores; 2 percent fine mica flakes; 5 percent gravel; neutral; clear wavy boundary.

Bw1—12 to 31 inches; pale brown (10YR 6/3) sandy loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine, medium, and coarse roots; common very fine and fine tubular and irregular pores; 5 percent fine mica flakes; 5 percent paragravel and 5 percent gravel; slightly acid; gradual wavy boundary.

Bw2—31 to 51 inches; pale brown (10YR 6/3) paragravelly sandy loam, brown (10YR 4/3) moist; weak medium and coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine, fine, and medium roots; common very fine and fine irregular pores; 20 percent fine mica flakes; 15 percent paragravel and 10 percent gravel; slightly acid; gradual wavy boundary.

BC—51 to 58 inches; light yellowish brown (2.5Y 6/3) very paragravelly sandy loam, olive brown (2.5Y 4/3) moist; weak coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine, fine, and medium roots; many very fine and fine irregular pores; 25 percent fine and medium mica flakes; 25 percent paragravel and 10 percent gravel; slightly acid; gradual wavy boundary.

Cr—58 inches; highly weathered micaceous schist; weakly cemented or moderately cemented.

Typical Pedon Location

Map unit in which located: Quinnamose-Micapeak complex, 30 to 55 percent slopes

Location in survey area: Spokane County, Washington, about 2 miles northeast of Freeman, Washington; about 1,040 feet east and 1,665 feet south of the northwest corner of section 32, T. 24 N., R. 45 E.

Range in Characteristics

Profile

Depth to bedrock—40 to 60 inches (paralithic)
Thickness of volcanic ash influence—8 to 14 inches
Clay content in particle-size control section—8 to 18 percent

A horizon

Value—5 or 6 dry, 2 to 4 moist
Chroma—2 or 3 dry or moist
Clay content—8 to 12 percent
Gravel content—0 to 10 percent
Mica content—0 to 5 percent
Reaction—moderately acid, slightly acid

BA horizon

Value—5 or 6 dry, 2 to 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy loam, ashy sandy loam
Clay content—8 to 14 percent
Gravel content—5 to 20 percent
Mica content—2 to 5 percent
Reaction—moderately acid to neutral

Bw horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, loam
Clay content—8 to 18 percent
Gravel content—5 to 15 percent in upper part, 10 to 20 percent in lower part
Paragravel content—0 to 15 percent
Total rock fragment content—averages less than 35 percent
Mica content—5 to 25 percent
Reaction—moderately acid to neutral

BC horizon
Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, loam
Clay content—5 to 10 percent
Gravel content—5 to 20 percent
Paragravel content—5 to 25 percent
Total rock fragment content—averages less than 40 percent
Mica content—15 to 25 percent
Reaction—slightly acid, neutral

Some pedons have a C horizon above the Cr horizon.

Reardan Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits, backslopes, and footslopes of loess hills
Parent material: Recent loess over older loess
Slope range: 0 to 25 percent
Elevation: 2,200 to 2,800 feet
Average annual precipitation: 15 to 18 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine, mixed, superactive, mesic Typic Palexerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 10 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; moderate coarse subangular blocky structure; moderately hard, friable, nonsticky and slightly plastic; many very fine roots throughout; common very fine irregular pores; moderately acid; clear wavy boundary.
Bw—10 to 15 inches; brown (10YR 4/3) silt loam, dark brown (10YR 3/3) moist; moderate coarse subangular blocky structure; moderately hard, friable, nonsticky and slightly plastic; many very fine roots throughout; many very fine and common fine irregular pores; slightly acid; clear wavy boundary.
E—15 to 18 inches; pale brown (10YR 6/3) silt loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine roots throughout; many very fine and common fine irregular pores; neutral; abrupt smooth boundary.
Btb—18 to 31 inches; dark yellowish brown (10YR 4/4) silty clay, dark yellowish brown (10YR 3/4) moist; strong medium prismatic structure parting to moderate medium

subangular blocky; very hard, very firm, very sticky and very plastic; many very fine roots between peds; common very fine irregular pores; 40 percent clay films and 40 percent pressure faces on faces of peds; 2 percent fine black (10YR 2/1) iron-manganese nodules with sharp boundaries in matrix; neutral; clear wavy boundary.

Btkb—31 to 37 inches; dark yellowish brown (10YR 4/4) silty clay loam, dark yellowish brown (10YR 3/6) moist; weak coarse prismatic structure parting to strong medium subangular blocky; hard, firm, very sticky and very plastic; common very fine roots between peds; common very fine and fine irregular pores; 20 percent clay films and 60 percent pressure faces on faces of peds; 2 percent fine black (10YR 2/1) iron-manganese nodules with sharp boundaries in matrix; 5 percent medium white (10YR 8/1) carbonate masses in matrix; neutral, clear wavy boundary.

Bkqb—37 to 60 inches; dark yellowish brown (10YR 4/6) silt loam, dark yellowish brown (10YR 3/6) moist; weak coarse prismatic structure parting to strong medium subangular blocky; moderately hard, friable, moderately sticky and moderately plastic; extremely weakly cemented with silica; common very fine and fine irregular pores; 70 percent pressure faces on faces of peds; 2 percent fine black (10YR 2/1) iron-manganese nodules with sharp boundaries in matrix; 10 percent extremely coarse white (10YR 8/1) carbonate masses on vertical faces of prisms; 70 percent medium extremely weakly cemented durinodes throughout; slightly alkaline.

Typical Pedon Location

Map unit in which located: Reardan silt loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington; about 2,000 feet north and 440 feet west of the southeast corner of section 29, T. 24 N., R. 40 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 20 inches
Depth to argillic horizon—12 to 19 inches
Depth to secondary carbonates—20 to 40 inches
Depth to durinodes—31 to 60 inches
Clay content in particle-size control section—35 to 45 percent

Ap and A horizons

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry, 1 to 3 moist
Clay content—15 to 25 percent
Reaction—moderately acid to neutral

Bw horizon

Value—4 or 5 dry, 3 or 4 moist
Chroma—2 to 3 dry or moist
Clay content—15 to 25 percent
Reaction—slightly acid, neutral

E horizon, or BE horizon (where present)

Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—12 to 20 percent
Reaction—slightly acid, neutral

Btb horizon

Hue—7.5YR, 10YR
Value—4 to 6 dry, 3 to 6 moist

Chroma—3 to 6 dry, 3 or 4 moist
Texture—silty clay loam, silty clay, clay
Clay content—35 to 45 percent
Reaction—neutral, slightly alkaline

Btkb horizon
Hue—7.5YR, 10YR
Value—4 to 6 dry, 3 to 6 moist
Chroma—3 to 6 dry, 3 or 4 moist
Texture—silty clay loam, silty clay, clay
Clay content—35 to 45 percent
Carbonate masses—2 to 25 percent
Durinode content—0 to 75 percent; fine to medium, extremely weakly cemented to moderately cemented
Reaction—neutral to moderately alkaline

Bkqb horizon
Hue—7.5YR, 10YR
Value—4 to 6 dry, 3 to 6 moist
Chroma—3 to 6 dry, 3 or 4 moist
Texture—silt loam, silty clay loam
Clay content—15 to 30 percent
Gravel content—0 to 10 percent
Carbonate masses—2 to 25 percent
Durinode content—30 to 90 percent; fine to medium, extremely weakly cemented to moderately cemented
Reaction—neutral to moderately alkaline

Some pedons have a BE horizon. A weakly developed duripan is below a depth of 43 inches in some pedons.

Rockly Series

Depth class: Very shallow
Drainage class: Well drained
Position on landscape: Summits on basalt plateaus of channeled scablands
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum
Slope range: 0 to 35 percent
Elevation: 1,820 to 2,600 feet
Average annual precipitation: 15 to 20 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Loamy-skeletal, mixed, superactive, mesic Lithic Haploxerolls (fig. 31)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 3 inches; brown (10YR 5/3) very cobbly loam, dark brown (10YR 3/3) moist; moderate very thick platy structure; slightly hard, very friable, slightly sticky and nonplastic; many very fine and few medium roots; common fine and medium irregular pores and few very fine tubular pores; 20 percent gravel and 35 percent cobbles; neutral; abrupt smooth boundary.
Bw—3 to 6 inches; brown (10YR 5/3) very cobbly loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; slightly hard, very friable, slightly

Figure 31.—Typical profile of a Rockly soil.

sticky and slightly plastic; common very fine and few medium roots; common very fine and fine and few medium irregular pores and common very fine tubular pores; 20 percent gravel and 35 percent cobbles; slightly acid; abrupt wavy boundary.

R—6 inches; unweathered basalt.

Typical Pedon Location

Map unit in which located: Rockly-Deno complex, 0 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 2 miles northwest of Airway Heights; about 1,450 feet north and 2,520 feet east of the southwest corner of section 10, T. 25 N., R. 41 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—4 to 12 inches

Hue—10YR, 7.5YR

Clay content—7 to 15 percent

Depth to bedrock—4 to 12 inches (lithic)

Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Gravel content—10 to 30 percent
Cobble content—20 to 40 percent
Total rock fragment content—35 to 60 percent

Bw horizon
Value—4 or 5 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam
Gravel content—20 to 45 percent
Cobble content—20 to 45 percent
Total rock fragment content—40 to 75 percent

The Rockly soils in this survey area are considered similar soils to the series because the clay content is less than the 20 to 30 percent that is the clay range for the series. This difference, however, does not significantly affect the use, management, and interpretation of the soils.

Saltese Series

Depth class: Very deep
Drainage class: Very poorly drained
Position on landscape: Treads on flood plains, drainageways, and depressions
Parent material: Decomposed organic herbaceous material
Slope range: 0 to 3 percent
Elevation: 1,540 to 2,500 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 46 to 48 degrees F
Frost-free period: 80 to 130 days

Taxonomic class: Euic, mesic Typic Haplosaprists

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oap—0 to 5 inches; black (7.5YR 2.5/1) herbaceous muck (highly decomposed plant material) broken face and rubbed, very dark grayish brown (10YR 3/2) dry; about 25 percent fiber, 5 percent rubbed; mostly herbaceous fiber; 40 percent mineral material; moderate medium and coarse granular structure; nonsticky and nonplastic; few very fine roots; very strongly acid; clear smooth boundary.

Oa—5 to 12 inches; black (10YR 2/1) herbaceous muck (highly decomposed plant material) broken face and rubbed, very dark gray (10YR 3/1) dry; about 20 percent fiber, 10 percent rubbed; mostly herbaceous fiber; 20 percent mineral material; weak medium and coarse subangular blocky structure; nonsticky and nonplastic; few very fine roots; very strongly acid; abrupt smooth boundary.

Oe—12 to 16 inches; dark reddish brown (5YR 2.5/2) herbaceous mucky peat (moderately decomposed plant material) broken face, black (5YR 2.5/1) rubbed, black (10YR 2/1) dry; about 50 percent fiber, 20 percent rubbed; mostly herbaceous fiber; less than 5 percent mineral material; weak medium and coarse subangular blocky structure; nonsticky and nonplastic; few very fine roots; 15 percent black (2.5YR 2.5/1) fine charcoal; very strongly acid; abrupt smooth boundary.

Oa1—16 to 24 inches; very dark grayish brown (10YR 3/2) herbaceous muck (highly decomposed plant material) broken face, very dark grayish brown (10YR 3/2) rubbed, dark gray (7.5YR 4/1) dry; about 30 percent fiber, 5 percent rubbed; mostly herbaceous fiber; less than 5 percent mineral content; weak medium and coarse subangular blocky structure; nonsticky and nonplastic; neutral; clear smooth boundary.

Oa2—24 to 40 inches; dark yellowish brown (10YR 3/6) and (10YR 4/6) herbaceous muck (highly decomposed material) broken face, dark brown (10YR 3/3) rubbed, grayish brown (10YR 5/2) dry; color changes dramatically and immediately upon exposure to air; about 30 percent fiber, 5 percent rubbed; mostly herbaceous fiber; less than 5 percent mineral material; massive; nonsticky and nonplastic; neutral; gradual smooth boundary.

Oa3—40 to 60 inches; dark yellowish brown (10YR 3/4) and (10YR 4/4) herbaceous muck (highly decomposed plant material) broken face, dark brown (10YR 3/3) rubbed, grayish brown (10YR 5/2) dry; color changes dramatically and immediately upon exposure to air; about 70 percent fiber, 5 percent rubbed; mostly herbaceous fiber; less than 5 percent mineral material; massive; nonsticky and nonplastic; neutral.

Typical Pedon Location

Map unit in which located: Saltese muck, drained, 0 to 3 percent slopes

Location in survey area: Spokane County, Washington, about 2 miles southwest of Liberty Lake, Washington; about 3,680 feet west and 770 feet north of the southeast corner of section 28, T. 25 N., R. 45 E.

Range in Characteristics

Profile

Thickness of organic material—50 to 60 inches or more

Reaction—very strongly acid to neutral

Depth to apparent water table—soil surface to a depth of 6 inches in December through May, more than 6 inches in June through November

Some pedons have discontinuous layers of limnic material mixed with volcanic ash and diatoms.

Oa horizon

Hue—5YR to 2.5Y

Value—2 to 4 moist, 2 to 5 dry

Chroma—1 to 6 moist, 1 or 2 dry

Unrubbed fiber content—5 to 30 percent

Rubbed fiber content—less than 5 to 15 percent

Oe horizon

Hue—5YR to 10YR

Value—2 to 3 moist, 2 to 4 dry

Chroma—2 to 4 dry or moist

Unrubbed fiber content—30 to 70 percent

Rubbed fiber content—5 to 25 percent

Santa Series

Depth class: Moderately deep to a fragipan

Drainage class: Moderately well drained

Position on landscape: Summits, backslopes, and footslopes of hills

Parent material: Loess with an influence of volcanic ash in the upper part

Slope range: 8 to 30 percent
Elevation: 2,310 to 3,200 feet
Average annual precipitation: 23 to 37 inches
Average annual air temperature: 41 to 46 degrees F
Frost-free period: 60 to 125 days

Taxonomic class: Coarse-silty, mixed, superactive, frigid Vitrandic Fragixeralfs (fig. 32)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 0.5 inch; slightly decomposed plant material.
Oe—0.5 to 1 inch; moderately decomposed plant material.
A1—1 to 5 inches; brown (10YR 5/3) ashy silt loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; slightly acid; clear smooth boundary.

Figure 32.—Typical profile of a Santa soil. Numerals on tape indicate inches.

A2—5 to 9 inches; pale brown (10YR 6/3) ashy silt loam, brown (10YR 4/3) moist; weak fine subangular blocky structure and weak medium subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; moderately acid; gradual wavy boundary.

Bw—9 to 16 inches; pale brown (10YR 6/3) silt loam, brown (10YR 4/3) moist; weak medium subangular blocky structure parting to weak thin platy; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine tubular pores and few fine irregular pores; strongly acid; gradual wavy boundary.

EB—16 to 25 inches; very pale brown (10YR 7/3) silt loam, brown (10YR 5/3) moist; moderate fine angular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine roots; few very fine irregular pores; 5 percent fine prominent spherical strongly cemented iron-manganese concretions that are in matrix and have sharp boundaries and 30 percent medium prominent irregular very weakly cemented masses of oxidized iron that are yellowish brown (10YR 5/6) moist, are in matrix, and have diffuse boundaries; strongly acid; abrupt wavy boundary.

E—25 to 27 inches; very pale brown (10YR 8/2) silt, light brownish gray (10YR 6/2) moist; massive; slightly hard, friable, nonsticky and slightly plastic; brittle; few very fine roots; few very fine irregular pores; 5 percent fine prominent spherical strongly cemented iron-manganese concretions that are in matrix and have sharp boundaries and 20 percent medium prominent irregular very weakly cemented masses of oxidized iron that are yellowish brown (10YR 5/4) moist, are in matrix, and have diffuse boundaries; strongly acid; abrupt irregular boundary.

Btx/Ex—27 to 39 inches; 75 percent dark yellowish brown (10YR 4/6) silty clay loam, dark yellowish brown (10YR 4/4) moist (Btx part); moderate coarse prismatic structure parting to strong medium angular blocky; extremely hard, extremely firm, moderately sticky and moderately plastic; brittle; 20 percent distinct silt coatings and 20 percent prominent organic stains on vertical faces of peds and 80 percent distinct clay films on faces of peds; 25 percent very pale brown (10YR 8/2) silt loam, pale brown (10YR 6/3) moist (Ex part); massive; extremely hard, firm, slightly sticky and slightly plastic; few very fine roots flattened between peds; common very fine and few fine irregular and vesicular pores; 5 percent fine prominent spherical strongly cemented iron-manganese concretions in matrix with sharp boundaries; moderately acid; clear wavy boundary.

Btx—39 to 65 inches; yellowish brown (10YR 5/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; moderate medium prismatic structure parting to moderate medium angular blocky; extremely hard, extremely firm, moderately sticky and moderately plastic; brittle; few very fine roots between peds; few very fine and common fine irregular and vesicular pores; 20 percent faint silt coatings and 80 percent prominent clay films on all faces of peds and 50 percent prominent organic stains on vertical faces of peds; 2 percent fine prominent spherical strongly cemented iron-manganese concretions in matrix with sharp boundaries; 2 percent fine gravel; neutral.

Typical Pedon Location

Map unit in which located: Santa ashy silt loam, 8 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 7 miles east of Freeman, Washington; about 0.5 mile south of Elder Road, on Horton Road; about 1,660 feet north and 10 feet east of the southwest corner of section 6, T. 23 N., R. 46 E.

Range in Characteristics

Profile
Depth to fragipan—20 to 40 inches
Depth to bedrock—more than 60 inches
Depth to perched water table—typically 16 to 25 inches, but ranges from 8 to 22 inches in February through March
Depth to redoximorphic features—16 to 25 inches
Thickness of volcanic ash influence—7 to 12 inches

A horizon
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Clay content—10 to 18 percent
Reaction—moderately acid to neutral

Bw horizon
Hue—10YR, 7.5YR
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Clay content—12 to 18 percent
Reaction—strongly acid to slightly acid

E horizon
Hue—10YR, 2.5Y, 7.5YR
Value—6 to 8 dry, 4 to 6 moist
Chroma—2 or 3 dry or moist
Texture—silt loam, silt
Clay content—8 to 16 percent
Reaction—strongly acid to slightly acid

Btx/Ex horizon
Texture—silt loam, silty clay loam
Clay content—20 to 34 percent
Reaction—moderately acid to neutral

Btx horizon
Hue—10YR, 7.5YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—19 to 35 percent
Fine gravel content—0 to 3 percent
Reaction—slightly acid, neutral

Schumacher Series

Depth class: Deep
Drainage class: Well drained
Position on landscape: Backslopes and footslopes of hills and mountains
Parent material: Loess mixed with colluvium and residuum derived from metasedimentary rock
Slope range: 5 to 40 percent
Elevation: 2,550 to 3,500 feet
Average annual precipitation: 20 to 28 inches

Average annual air temperature: 45 to 49 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Fine-loamy, mixed, superactive, mesic Ultic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material mixed with 1980's Mount St. Helens volcanic ash.

A—1 to 8 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; moderate very fine and fine granular structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and few fine roots; 10 percent quartzite gravel; moderately alkaline; clear wavy boundary.

BA—8 to 20 inches; brown (10YR 4/3) silt loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure parting to strong fine subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; common very fine and few fine roots; 10 percent quartzite gravel; slightly acid; gradual wavy boundary.

Bt1—20 to 27 inches; brown (10YR 5/3) silt loam, brown (7.5YR 4/3) moist; moderate coarse subangular blocky structure and moderate medium subangular blocky; moderately hard, friable, slightly sticky and slightly plastic; few very fine, fine, and medium roots; 3 percent distinct organoargillans on faces of peds; 10 percent distinct silt coatings on faces of peds; 25 percent faint clay films on faces of peds; krotovinas or pockets of buried A material throughout horizon; 10 percent quartzite gravel; slightly acid; clear wavy boundary.

Bt2—27 to 34 inches; dark yellowish brown (10YR 4/4) gravelly silt loam, dark yellowish brown (10YR 3/4) moist; moderate coarse subangular blocky structure parting to strong medium angular blocky; moderately hard, friable, moderately sticky and moderately plastic; few very fine and fine roots; 10 percent distinct silt coatings on faces of peds; 10 percent distinct and 35 percent faint clay films on faces of peds; 15 percent quartzite gravel and 2 percent quartzite paragravel; neutral; gradual wavy boundary.

Bt3—34 to 41 inches; yellowish brown (10YR 5/4) very cobbly clay loam, dark yellowish brown (10YR 3/4) moist; moderate fine subangular blocky structure and moderate medium subangular blocky; moderately hard, friable, moderately sticky and moderately plastic; few very fine and fine roots; 10 percent distinct and 35 percent faint clay films on faces of peds; 20 percent quartzite gravel and 25 percent quartzite cobbles; neutral; gradual wavy boundary.

Bt4—41 to 47 inches; brown (7.5YR 4/4) gravelly clay loam, brown (7.5YR 4/3) moist; moderate fine subangular blocky structure and moderate medium subangular blocky; moderately hard, friable, moderately sticky and moderately plastic; few very fine and fine roots; 3 percent distinct organoargillans; 10 percent distinct and 40 percent faint clay films on faces of peds; 25 percent quartzite gravel, 2 percent quartzite paragravel, and 5 percent strongly cemented quartzite cobbles; neutral; abrupt wavy boundary.

R—47 inches; metasedimentary rock.

Typical Pedon Location

Map unit in which located: Schumacher-Tekoa complex, 25 to 45 percent slopes
Location in survey area: Benewah County, Idaho, about 4.5 miles west of the town of Tensed, Idaho; about 970 feet north and 2,075 feet east of the southwest corner of section 7, T. 44 N., R. 5 W.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 19 inches
Depth to bedrock—40 to 60 inches (lithic)

A horizon
Hue—10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 or 2 dry or moist
Clay content—15 to 24 percent
Gravel content—0 to 10 percent
Reaction—neutral, slightly alkaline

BA horizon
Hue—10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—silt loam
Clay content—17 to 25 percent
Gravel content—0 to 10 percent
Reaction—slightly acid to slightly alkaline

Bt1 and Bt2 horizons
Hue—10YR, 7.5YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—20 to 29 percent
Gravel content—0 to 25 percent
Reaction—slightly acid to slightly alkaline

Bt3 and Bt4 horizons
Hue—10YR, 7.5YR
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—clay loam, silty clay loam, silt loam
Clay content—24 to 30 percent
Gravel content—15 to 30 percent
Cobble content—5 to 25 percent
Total rock fragment content—20 to 45 percent
Reaction—slightly acid to slightly alkaline

Scoap Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes of escarpments
Parent material: Outwash deposits mixed with loess and a minor amount of volcanic ash in the upper part
Slope range: 30 to 60 percent
Elevation: 1,540 to 2,400 feet
Average annual precipitation: 18 to 23 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Loamy-skeletal, isotic, frigid Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material.
A1—1 to 7 inches; dark grayish brown (10YR 4/2) gravelly ashy sandy loam, very dark brown (10YR 2/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many very fine and few fine roots; many very fine interstitial pores; 30 percent gravel; slightly acid; abrupt smooth boundary
A2—7 to 17 inches; grayish brown (10YR 5/2) very gravelly ashy sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many very fine and few fine, medium, and coarse roots; few fine and medium dendritic tubular pores and many very fine interstitial pores; 40 percent gravel; slightly acid; clear smooth boundary
Bw—17 to 30 inches; brown (10YR 5/3) very gravelly sandy loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine and few fine and medium roots; few fine dendritic tubular pores and many very fine interstitial pores; 50 percent gravel and 5 percent cobbles; slightly acid; gradual smooth boundary
BC—30 to 47 inches; pale brown (10YR 6/3) very gravelly sandy loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; soft, very friable, nonsticky and nonplastic; common very fine and few fine roots; many very fine interstitial pores; 45 percent gravel and 5 percent cobbles; slightly acid; clear smooth boundary.
C—47 to 60 inches; pale brown (10YR 6/3) gravelly loamy sand, brown (10YR 4/3) moist; single grain; loose, soft, nonsticky and nonplastic; few very fine and fine roots; many very fine interstitial pores; 25 percent gravel; slightly acid.

Typical Pedon Location

Map unit in which located: Scoap-Wapal complex, 30 to 60 percent slopes
Location in survey area: Spokane County, Washington, about 4 miles west of Nine Mile Falls, Washington; about 1,100 feet north and 2,200 feet west of the southeast corner of section 34, T. 27 N., R. 41 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—20 to 30 inches
Thickness of volcanic ash influence—7 to 16 inches
Rock fragment content in particle-size control section—averages 35 to 50 percent
Clay content in particle-size control section—8 to 12 percent
Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—8 to 12 percent
Gravel content—15 to 40 percent
Cobble content—0 to 5 percent

Bw horizon
Value—4 to 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—8 to 12 percent

Gravel content—25 to 50 percent
Cobble content—0 to 30 percent

C horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, loamy sand
Clay content—3 to 10 percent
Gravel content—10 to 40 percent
Cobble content—0 to 25 percent
Stone content—0 to 5 percent

Scrabblers Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash plains
Parent material: Thin mantle of volcanic ash mixed with loess over outwash
Slope range: 0 to 15 percent
Elevation: 1,900 to 2,400 feet
Average annual precipitation: 20 to 25 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Sandy, isotic, frigid Andic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles and twigs.
A1—1 to 5 inches; dark grayish brown (10YR 4/2) ashy fine sandy loam, very dark brown (10YR 2/2) moist; weak fine and medium subangular blocky structure; very friable, soft, nonsticky and nonplastic; weakly smeary; many fine and medium and common coarse roots; many fine irregular pores; 2 percent rounded gravel; slightly acid; clear smooth boundary.
A2—5 to 8 inches; brown (10YR 5/3) ashy fine sandy loam, dark brown (10YR 3/3) moist; weak fine and medium subangular blocky structure; very friable, soft, nonsticky and nonplastic; weakly smeary; many fine and medium roots; many fine irregular pores; 2 percent rounded gravel; slightly acid; clear smooth boundary.
Bw1—8 to 12 inches; pale brown (10YR 6/3) ashy fine sandy loam, brown (10YR 4/3) moist; weak fine and medium subangular blocky structure; very friable, soft, nonsticky and nonplastic; weakly smeary; common fine and medium roots; many fine irregular pores; 2 percent rounded gravel; slightly acid; clear wavy boundary.
2Bw2—12 to 23 inches; light yellowish brown (10YR 6/4) gravelly sandy loam, dark yellowish brown (10YR 4/4) moist; weak medium subangular blocky structure; very friable, soft, nonsticky and nonplastic; common fine and few medium roots; common medium interstitial pores; 15 percent rounded gravel; slightly acid; clear wavy boundary.
2C1—23 to 36 inches; light yellowish brown (2.5Y 6/4) loamy coarse sand, olive brown (2.5Y 4/3) moist; massive; very friable, soft, nonsticky and nonplastic; few medium roots; many coarse interstitial pores; 10 percent rounded gravel; neutral; gradual wavy boundary.
2C2—36 to 60 inches; variegated gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few medium roots; many coarse interstitial pores; 20 percent rounded gravel; neutral; 1 percent mica flakes.

Typical Pedon Location

Map unit in which located: Scrabblers ashy fine sandy loam, 3 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 3 miles east of Deer Park, Washington; about 1,560 feet north and 1,235 feet east of the southwest corner of section 33, T. 29 N., R. 43 E.

Range in Characteristics

Profile
Depth to loamy sand or sand—20 to 30 inches
Thickness of volcanic ash mantle—7 to 13 inches
Reaction—slightly acid or neutral throughout

A horizon
Value—4 to 6 dry, 2 to 4 moist
Chroma—2 to 4 dry or moist
Texture—ashy fine sandy loam, ashy sandy loam
Clay content—2 to 10 percent
Gravel content—0 to 5 percent

Bw horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy fine sandy loam, ashy sandy loam
Clay content—2 to 8 percent
Gravel content—0 to 10 percent

2Bw2 horizon
Chroma—3 or 4 moist or dry
Texture—sandy loam
Clay content—0 to 5 percent
Gravel content—5 to 15 percent

2C horizon
Hue—2.5Y, 10YR, variegated
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 to 6 dry or moist
Texture—coarse sand, loamy coarse sand
Clay content—0 to 5 percent
Gravel content—10 to 30 percent

Seaboldt Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Treads on outwash plains of basalt plateaus
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits over residuum derived from basalt
Slope range: 0 to 15 percent
Elevation: 1,900 to 2,550 feet
Average annual precipitation: 16 to 25 inches
Average annual air temperature: 42 to 52 degrees F
Frost-free period: 90 to 150 days

Taxonomic class: Coarse-loamy, isotic, mesic Vitrandic Haploxerolls (fig. 33)

Figure 33.—Typical profile of a Seaboldt soil. Numerals on tape indicate centimeters.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 7 inches; brown (10YR 5/3) ashy loam, very dark grayish brown (10YR 3/2) moist; moderate thick platy structure parting to moderate medium subangular blocky; very friable, slightly hard, slightly sticky and slightly plastic; common very fine and few fine to coarse roots throughout; common very fine irregular pores and common very fine and fine tubular pores; 1 percent subrounded fine basalt gravel; slightly acid; clear smooth boundary.

Ap2—7 to 10 inches; brown (10YR 4/3) ashy loam, very dark grayish brown (10YR 3/2) moist; moderate very coarse subangular blocky structure parting to moderate coarse subangular blocky; friable, moderately hard, slightly sticky and slightly plastic; common very fine roots throughout; common very fine and fine tubular pores and common very fine irregular pores; 1 percent subrounded basalt gravel; slightly acid; abrupt smooth boundary.

Bw1—10 to 16 inches; yellowish brown (10YR 5/4) loam, dark yellowish brown (10YR 3/4) moist; moderate coarse subangular blocky structure; very friable, slightly hard,

slightly sticky and slightly plastic; few fine to medium and common very fine roots throughout; common very fine to medium tubular pores and common very fine irregular pores; 1 percent subrounded basalt gravel; slightly acid; clear smooth boundary.

2Bw2—16 to 23 inches; yellowish brown (10YR 5/4) sandy loam, dark yellowish brown (10YR 3/4) moist; weak coarse subangular blocky structure; very friable, slightly hard, slightly sticky and slightly plastic; common very fine and few fine to coarse roots throughout; few fine tubular pores and common very fine and fine irregular pores; 8 percent subangular basalt gravel and 3 percent angular basalt cobbles; slightly acid; abrupt wavy boundary.

2C—23 to 28 inches; yellowish brown (10YR 5/4) extremely gravelly sandy loam, dark yellowish brown (10YR 3/4) moist; single grain; loose, soft, nonsticky and nonplastic; few fine and medium and common very fine roots throughout; common very fine and fine irregular pores; 70 percent subangular basalt gravel; slightly acid; abrupt wavy boundary.

3R—28 inches; indurated basalt; fractures 4 to 18 inches apart.

Typical Pedon Location

Map unit in which located: Seaboldt ashy loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 3 miles east-northeast of Marshall, Washington; about 300 feet west and 1,250 feet north of the southeast corner of section 13, T. 24 N., R. 42 E.

Range in Characteristics

Profile

Depth to basalt—20 to 40 inches (lithic)
Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—7 to 14 inches
Reaction—slightly acid, neutral

An Oi horizon is in uncultivated areas.

Ap horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy loam, ashy silt loam
Clay content—8 to 22 percent
Gravel content—0 to 10 percent

Bw and 2Bw horizons

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam, sandy loam
Clay content—4 to 18 percent
Gravel content—0 to 25 percent
Cobble content—0 to 10 percent
Total rock fragment content—0 to 30 percent

2C horizon (where present)

Value—5 or 6 dry, 3 or 4 moist
Chroma—4 or 6 dry or moist
Texture—loamy sand, sand, sandy loam
Clay content—2 to 10 percent
Gravel content—10 to 70 percent
Cobble content—0 to 15 percent
Stone content—0 to 5 percent

Total rock fragment content—15 to 75 percent
Lamellae—present in some pedons

Sinkler Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes of hills and mountains
Parent material: Loess over older loess with an influence of volcanic ash in the upper part
Slope range: 10 to 40 percent
Elevation: 2,620 to 3,350 feet
Average annual precipitation: 25 to 33 inches
Average annual air temperature: 42 to 46 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Fine-silty, mixed, superactive, frigid Vitrandic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 0.5 inch; slightly decomposed needles, twigs, leaves, bark, and cones.
Oe—0.5 to 1 inch; moderately decomposed organic matter mixed with 1980's Mount St. Helens volcanic ash.
A—1 to 6 inches; dark brown (10YR 3/3) ashy silt loam, grayish brown (10YR 5/2) dry; moderate fine and medium subangular blocky structure parting to moderate medium and coarse granular; soft, very friable, nonsticky and nonplastic; many very fine and fine and common medium roots; many very fine and common fine tubular pores; 3 percent fine gravel; moderately acid; abrupt wavy boundary.
Bw—6 to 12 inches; brown (10YR 4/3) ashy silt loam, pale brown (10YR 6/3) dry; moderate fine and medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; common very fine, fine, and medium and few coarse roots; many very fine and few fine tubular pores; very few faint clay films on faces of peds and in pores and few faint light gray (10YR 7/2) silt coatings in root channels; 5 percent fine gravel; moderately acid; clear wavy boundary.
EBt—12 to 20 inches; dark yellowish brown (10YR 4/4) silt loam, pale brown (10YR 6/3) dry; strong fine and medium subangular blocky structure; hard, firm, slightly sticky and nonplastic; common very fine, fine, and medium and few coarse roots; many very fine and fine tubular pores; few distinct clay films on faces of peds and in pores and few faint light gray (10YR 7/2) silt coatings in root channels; 3 percent fine gravel; moderately acid; clear wavy boundary.
BtE—20 to 28 inches; brown (7.5YR 4/4) silt loam, light yellowish brown (10YR 6/4) dry; strong medium and coarse subangular blocky structure; hard, firm, slightly sticky and slightly plastic; common very fine and fine, few medium, and common coarse roots; many very fine and fine and few medium tubular pores; few distinct strong brown (7.5YR 5/6) clay films on faces of peds and in pores and few faint light gray (10YR 7/2) silt coatings on faces of peds and in root channels; 3 percent gravel; moderately acid; clear wavy boundary.
Bt—28 to 38 inches; brown (7.5YR 4/4) silt loam, light yellowish brown (10YR 6/4) dry; strong fine and medium angular blocky structure; very hard, extremely firm, slightly sticky and slightly plastic; common very fine and fine and few medium and coarse roots; many very fine and fine tubular pores; common prominent strong brown (7.5YR 5/6) clay films on faces of peds and in pores and few distinct light

gray (10YR 7/2) silt coatings on vertical faces of peds and in root channels; very few prominent organoargillans along root channels; 10 percent gravel; moderately acid; clear wavy boundary.

Btb—38 to 51 inches; dark brown (7.5YR 3/4) silt loam, brown (7.5YR 5/4) dry; strong fine and medium angular blocky structure; extremely hard, slightly rigid, moderately sticky and moderately plastic; common very fine and fine and few medium and coarse roots between peds; many very fine and few fine tubular pores; common prominent strong brown (7.5YR 5/6) clay films on faces of peds and in pores and root channels and few distinct light gray (10YR 7/2) silt coatings on vertical faces of peds and in root channels; very few prominent organoargillans along root channels; 5 percent gravel, slightly acid; gradual wavy boundary.

Btxb—51 to 60 inches; brown (7.5YR 4/4) silty clay loam, light brown (7.5YR 6/4) dry; moderate medium and coarse angular blocky structure; extremely hard, slightly rigid, moderately sticky and moderately plastic; few very fine, fine, and medium roots between peds; many very fine tubular pores; common prominent strong brown (7.5YR 5/6) clay films on faces of peds and in pores and root channels and few distinct light gray (10YR 7/2) silt coatings on vertical faces of peds and in root channels; very few prominent organoargillans along root channels; approximately 40 percent fragic material; 10 percent gravel; moderately acid.

Typical Pedon Location

Map unit in which located: Sinkler-Arson complex, 10 to 40 percent slopes

Location in survey area: Benewah County, Idaho, about 2.5 miles northwest of the town of Plummer, Idaho; about 420 feet south and 1,690 feet west of the northeast corner of section 10, T. 46 N., R. 5 W.

Range in Characteristics

Profile

Thickness of volcanic ash influence—7 to 12 inches

A horizon

Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam
Clay content—9 to 15 percent
Total rock fragment content—0 to 5 percent gravel
Reaction—moderately acid, slightly acid

Bw horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy silt loam
Clay content—11 to 17 percent
Total rock fragment content—0 to 5 percent gravel
Reaction—moderately acid, slightly acid

EBt and BtE horizons

Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—silt loam
Clay content—15 to 25 percent
Total rock fragment content—0 to 5 percent gravel
Reaction—moderately acid, slightly acid

Bt horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—4 to 6 dry or moist
Texture—silt loam
Clay content—20 to 26 percent
Total rock fragment content—0 to 10 percent gravel
Reaction—moderately acid, slightly acid

Btb horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry, 4 or 6 moist
Texture—silt loam, silty clay loam
Clay content—20 to 33 percent
Total rock fragment content—0 to 10 percent gravel
Reaction—moderately acid, slightly acid

Btxb horizon, or BtxbE horizon (where present)
Hue—10YR, 7.5YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry, 4 or 6 moist
Texture—silty clay loam, silt loam
Clay content—23 to 37 percent
Fragic material content—10 to 40 percent
Total rock fragment content—0 to 10 percent gravel
Reaction—moderately acid, slightly acid

Skalan Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes, shoulders, and ridges of mountains and hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 8 to 40 percent
Elevation: 2,200 to 3,100 feet
Average annual precipitation: 17 to 23 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, isotic, mesic Vitrandic Haploxeralfs

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, twigs, leaves, and cones.
A—1 to 9 inches; dark grayish brown (10YR 4/2) gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; soft, friable, slightly sticky and slightly plastic; many very fine and fine and common medium roots; many very fine and fine irregular pores; 15 percent gravel; slightly acid; abrupt wavy boundary.
BA—9 to 16 inches; brown (10YR 5/3) gravelly ashy loam, brown (10YR 4/3) moist; moderate fine and medium subangular blocky structure; soft, friable, slightly sticky and slightly plastic; many very fine and fine and common medium roots; many

very fine and fine irregular pores; 30 percent gravel; moderately acid; clear wavy boundary.

Bt1—16 to 23 inches; yellowish brown (10YR 5/4) very gravelly clay loam, dark yellowish brown (10YR 4/4) moist; moderate fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common fine and medium and few coarse roots; common very fine and fine tubular and irregular pores; 15 percent distinct clay films on peds; 35 percent gravel; moderately acid; clear wavy boundary.

Bt2—23 to 31 inches; light yellowish brown (10YR 6/4) very gravelly loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; few fine, medium, and coarse roots; common very fine and fine tubular and irregular pores; 20 percent distinct clay films on peds; 50 percent gravel; moderately acid; clear wavy boundary.

Cr—31 to 36 inches; highly weathered granite; clear wavy boundary.

R—36 inches; slightly weathered, fractured granite.

Typical Pedon Location

Map unit in which located: Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes

Location in survey area: Spokane County, Washington, about 3.75 miles north of the town of Mica, Washington; about 2,215 feet south and 1,170 feet east of the northwest corner of section 2, T. 24 N., R. 44 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—3 to 8 inches
Thickness of volcanic ash influence—7 to 15 inches
Depth to bedrock—20 to 40 inches (lithic)

A horizon

Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—10 to 16 percent
Gravel content—15 to 30 percent

BA horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—12 to 18 percent
Gravel content—20 to 35 percent
Reaction—moderately acid to neutral

Bt horizon

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 to 4 dry or moist
Texture—loam, clay loam, sandy clay loam
Clay content—20 to 30 percent
Gravel content—35 to 60 percent
Cobble content—0 to 5 percent
Reaction—moderately acid, slightly acid

A C horizon is in some pedons.

Southwick Taxadjunct

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Backslopes, summits, shoulders, and footslopes of loess hills on basalt plateaus
Parent material: Loess with an influence of volcanic ash in the upper part over older loess
Slope range: 3 to 25 percent
Elevation: 2,400 to 3,100 feet
Average annual precipitation: 19 to 28 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Vitrandic Argixerolls (fig. 34)

Taxadjunct Features

The Southwick soils in this survey area are a taxadjunct to the series because the upper part has properties that meet the criteria for the Vitrandic subgroup. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 6 inches; dark grayish brown (10YR 4/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak medium granular structure; friable, slightly hard, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine irregular pores; moderately acid; clear smooth boundary.

Ap2—6 to 14 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine and medium subangular blocky structure; friable, slightly hard, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; slightly acid; clear smooth boundary.

Bw—14 to 22 inches; brown (10YR 5/3) silt loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure; friable, hard, slightly sticky and slightly plastic; few fine and common very fine roots; common very fine and fine tubular pores; slightly acid; clear smooth boundary.

EB—22 to 27 inches; pale brown (10YR 6/3) silt loam, brown (10YR 4/3) moist; weak fine and medium subangular blocky structure; friable, hard, slightly sticky and slightly plastic; few very fine and fine roots; common very fine and fine tubular pores; slightly acid; abrupt smooth boundary.

Ec—27 to 32 inches; light gray (10YR 7/2) silt loam, grayish brown (10YR 5/2) moist; weak medium angular blocky structure; friable, slightly hard, slightly sticky and slightly plastic; few very fine roots; many very fine irregular pores; common fine iron-manganese concretions; slightly acid; abrupt smooth boundary.

Btcxb1—32 to 36 inches; yellowish brown (10YR 5/4) silty clay loam, brown (10YR 4/3) moist; strong medium and coarse prismatic structure; slightly rigid and brittle (some peds), extremely hard, moderately sticky and moderately plastic; few fine roots between peds; few fine irregular pores and common very fine and fine tubular pores; common faint skeletans, many distinct silt coatings, and many distinct clay films on faces of peds; common fine iron-manganese concretions; neutral; gradual wavy boundary.

Btcb2—36 to 48 inches; brownish yellow (10YR 6/6) silty clay loam, brown (10YR 4/3) moist; moderate medium and coarse prismatic structure; extremely firm, very hard, moderately sticky and moderately plastic; few very fine roots between peds; common very fine and fine tubular pores; common faint silt coatings and many

Figure 34.—Typical profile of a Southwick soil. Numerals on tape indicate inches.

distinct clay films on faces of peds; common fine iron-manganese concretions and common manganese coatings on faces of peds; slightly acid; gradual wavy boundary.

Btb3—48 to 60 inches; yellowish brown (10YR 5/4) silt loam, dark brown (10YR 3/3) crushed and moist; moderate medium and coarse subangular blocky structure; very firm, very hard, slightly sticky and moderately plastic; few very fine roots between peds; common very fine and fine tubular pores; few faint silt coatings and many distinct clay films on faces of peds; neutral.

Typical Pedon Location

Map unit in which located: Larkin-Southwick complex, 8 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 0.5 mile west of Mica, Washington; about 2,610 feet north and 1,720 feet west of the southeast corner of section 22, T. 24 N., R. 44 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—16 to 22 inches
Thickness of volcanic ash influence—10 to 14 inches
Depth to argillic horizon—27 to 40 inches
Depth to perched water table—24 to 32 inches in January through April
Depth to redoximorphic features—24 to 32 inches

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 or 2 dry or moist
Clay content—12 to 25 percent
Reaction—moderately acid, slightly acid

Bw horizon
Value—4 or 5 dry, 3 moist
Chroma—2 or 3 dry or moist
Clay content—15 to 25 percent
Reaction—moderately acid to neutral

EB horizon
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 dry or moist
Clay content—15 to 18 percent
Reaction—moderately acid to neutral

Ec horizon, or E horizon (where present)
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 or 3 dry or moist
Clay content—8 to 16 percent
Iron-manganese concretions—none to common, fine
Reaction—slightly acid, neutral

Btb horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—4 or 6 dry, 3 or 4 moist
Texture—silt loam, silty clay loam
Clay content—24 to 35 percent
Iron-manganese concretions—none to common, fine
Reaction—slightly acid, neutral

Btxb horizon (where present)
Value—5 or 6 dry, 3 or 4 moist
Chroma—4 or 6 dry, 3 or 4 moist
Texture—silt loam, silty clay loam
Clay content—24 to 35 percent
Iron-manganese concretions—none to common, fine
Reaction—slightly acid, neutral

Speigle Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes of canyons, escarpments, earthflows, and basalt plateaus
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium derived from basalt
Slope range: 8 to 80 percent
Elevation: 1,650 to 2,700 feet
Average annual precipitation: 16 to 25 inches
Average annual air temperature: 42 to 52 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 6 inches; brown (10YR 4/3) cobbly ashy loam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; slightly hard, friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine tubular pores; 15 percent gravel and 15 percent cobbles; neutral; clear wavy boundary.

AB—6 to 17 inches; brown (10YR 5/3) very gravelly ashy loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; 35 percent gravel and 5 percent cobbles; neutral; gradual wavy boundary.

Bt1—17 to 23 inches; light yellowish brown (10YR 6/4) very cobbly loam, dark yellowish brown (10YR 4/4) crushed and moist; weak fine and medium subangular blocky structure; slightly hard, firm, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine tubular pores; 5 percent faint clay films on faces of peds; 25 percent gravel and 25 percent cobbles; neutral; clear wavy boundary.

Bt2—23 to 35 inches; very pale brown (10YR 7/4) extremely gravelly loam, yellowish brown (10YR 5/4) moist; moderate fine subangular blocky structure; slightly hard, firm, slightly sticky and slightly plastic; few very fine and fine roots; common very fine irregular pores and few very fine tubular pores; 5 percent faint clay films on faces of peds; 40 percent gravel and 20 percent cobbles; neutral; gradual wavy boundary.

BC—35 to 44 inches; very pale brown (10YR 7/4) extremely cobbly sandy loam, yellowish brown (10YR 5/4) moist; weak fine subangular blocky structure; hard, firm, slightly sticky and slightly plastic; few very fine and fine roots; few very fine tubular pores and common very fine irregular pores; 30 percent gravel and 40 percent cobbles; neutral; gradual wavy boundary.

C—44 to 65 inches; very pale brown (10YR 7/3) extremely cobbly sandy loam, brown (10YR 5/3) moist; massive; hard, firm, slightly sticky and slightly plastic; few very fine and fine roots; many very fine irregular pores and common medium interstitial pores; 30 percent gravel and 55 percent cobbles; neutral.

Typical Pedon Location

Map unit in which located: Klickson-Speigle complex, 30 to 60 percent slopes

Location in survey area: Spokane County, Washington, about 0.5 mile north of Millwood, Washington; about 2,020 feet east and 2,000 feet south of the northwest corner of section 32, T. 26 N., R. 44 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 20 inches
Thickness of volcanic ash influence—10 to 18 inches
Clay content in particle-size control section—10 to 18 percent
Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 dry, 2 or 3 moist
Texture—ashy loam
Clay content—10 to 15 percent
Gravel content—5 to 15 percent
Cobble content—10 to 20 percent
Total rock fragment content—15 to 35 percent

AB horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 dry, 2 or 3 moist
Texture—ashy loam, ashy silt loam
Clay content—10 to 15 percent
Gravel content—10 to 35 percent
Cobble content—5 to 30 percent
Total rock fragment content—15 to 45 percent

Bt or Bw horizon
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, silt loam
Clay content—10 to 18 percent
Gravel content—25 to 45 percent
Cobble content—0 to 25 percent
Total rock fragment content—35 to 60 percent

C horizon
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam
Clay content—10 to 15 percent
Gravel content—20 to 50 percent
Cobble content—20 to 60 percent
Total rock fragment content—40 to 85 percent

Spens Series

Depth class: Very deep
Drainage class: Somewhat excessively drained
Position on landscape: Risers of outwash terraces
Parent material: Sandy and gravelly glaciofluvial deposits
Slope range: 15 to 65 percent

Elevation: 1,540 to 2,400 feet
Average annual precipitation: 15 to 20 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Sandy-skeletal, mixed, mesic Typic Xerorthents

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A—0 to 3 inches; brown (10YR 5/3) very gravelly loamy coarse sand, dark brown (10YR 3/3) moist; weak medium granular structure; soft, friable, nonsticky and nonplastic; many very fine and fine roots; many fine interstitial pores; 35 percent gravel; neutral; clear smooth boundary.
C1—3 to 18 inches; yellowish brown (10YR 5/4) very gravelly loamy coarse sand, dark yellowish brown (10YR 4/3) moist; single grain; loose; nonsticky and nonplastic; common very fine and fine roots; many fine interstitial pores; 35 percent gravel; neutral; clear wavy boundary.
C2—18 to 60 inches; yellowish brown (10YR 5/4) very gravelly coarse sand, dark yellowish brown (10YR 4/4) moist; single grain; loose, nonsticky and nonplastic; few very fine roots; many fine and medium interstitial pores; 40 percent gravel; neutral.

Typical Pedon Location

Map unit in which located: Spens very gravelly loamy coarse sand, 30 to 65 percent slopes
Location in survey area: Spokane County, Washington, about 3 miles east of Nine Mile Falls, Washington; about 2,300 feet west and 1,850 feet south of the northeast corner of section 3, T. 26 N., R. 42 E.

Range in Characteristics

Profile
Thickness of ochric epipedon—3 to 6 inches
Rock fragment content in particle-size control section—35 to 60 percent

A horizon
Value—4 to 6 dry, 2 to 4 moist
Chroma—3 or 4 dry or moist
Clay content—2 to 4 percent
Gravel content—35 to 55 percent
Cobble content—0 to 5 percent
Reaction—slightly acid, neutral

An AC or Bkq horizon is in some pedons.

C horizon
Hue—10YR, variegated
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy coarse sand, coarse sand
Clay content—0 to 4 percent
Gravel content—35 to 55 percent
Cobble content—0 to 10 percent
Reaction—slightly acid, neutral

Spokane Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes and shoulders of ridges, mountains, and hills
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, and granite
Slope range: 3 to 55 percent
Elevation: 1,700 to 3,600 feet
Average annual precipitation: 15 to 28 inches
Average annual air temperature: 42 to 50 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Coarse-loamy, isotic, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; very dark brown or grayish brown, loose, partially decomposed organic litter composed of pine needles, leaves, twigs, and cones.
A1—1 to 4 inches; grayish brown (10YR 5/2) ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, friable, slightly sticky and slightly plastic; many roots; many very fine tubular and irregular pores; 5 percent gravel; slightly acid; clear smooth boundary.
A2—4 to 10 inches; brown (10YR 5/3) ashy sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; many roots; many very fine tubular and irregular pores; 10 percent gravel; slightly acid; clear smooth boundary.
Bt—10 to 18 inches; pale brown (10YR 6/3) gravelly coarse sandy loam, dark brown (10YR 4/3) moist; weak moderate subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; common roots; many very fine tubular and irregular pores; 20 percent gravel; slightly acid; clear wavy boundary.
BCt—18 to 26 inches; pale brown (10YR 6/3) gravelly coarse sandy loam, dark brown (10YR 4/3) moist; weak fine subangular blocky structure; soft, friable, nonsticky and nonplastic; common roots; many very fine irregular pores; few irregular horizontal bands of loam that are dark yellowish brown (10YR 4/4) moist and 2 to 5 millimeters thick; 20 percent gravel; slightly acid; gradual irregular boundary.
Cr—26 inches; pale brown (10YR 6/3), light gray (10YR 7/2), and gray (10YR 5/1) weathered granite; crumbles to gravelly loamy coarse sand.

Typical Pedon Location

Map unit in which located: Kramerhill-Spokane complex, 8 to 25 percent slopes
Location in survey area: Spokane County, Washington, about 1.5 miles northeast of the town of Foothills, Washington; about 200 feet west and 1,870 feet north of the southeast corner of section 1, T. 26 N., R. 44 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—7 to 16 inches
Thickness of volcanic ash influence—7 to 12 inches
Depth to bedrock—20 to 40 inches (paralithic)
Depth to bedrock—40 to 60 inches (lithic)
Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy loam, ashy sandy loam
Clay content—5 to 11 percent
Gravel content—0 to 10 percent

Bt or Bw horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam, coarse sandy loam
Clay content—5 to 10 percent
Gravel content—10 to 30 percent
Cobble content—0 to 5 percent
Total rock fragment content—10 to 30 percent

BCt or BC horizon
Value—5 to 7 dry, 4 or 5 moist
Chroma—2 to 4 dry or moist
Texture—sandy loam, coarse sandy loam, loamy coarse sand
Clay content—3 to 9 percent
Gravel content—10 to 30 percent
Cobble content—0 to 5 percent
Total rock fragment content—15 to 35 percent

A C horizon is in some pedons.

Springdale Series

Depth class: Very deep
Drainage class: Somewhat excessively drained
Position on landscape: Treads and risers of outwash terraces
Parent material: Sandy and gravelly glaciofluvial deposits mixed with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 15 percent
Elevation: 1,540 to 2,500 feet
Average annual precipitation: 15 to 23 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Sandy-skeletal, isotic, mesic Vitrandic Haploxerepts (fig. 35)

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; partially decomposed organic litter composed of pine needles, leaves, twigs, and cones.
A—1 to 3 inches; dark grayish brown (10YR 4/2) gravelly ashy coarse sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many very fine roots; many very fine, fine, and medium irregular pores; 20 percent gravel and 2 percent cobbles; neutral; abrupt smooth boundary.
AB—3 to 7 inches; pale brown (10YR 6/3) gravelly ashy coarse sandy loam, brown (10YR 4/3) moist; weak fine granular structure; soft, friable, nonsticky and

Figure 35.—Typical profile of a Springdale soil. Numerals on tape indicate feet.

nonplastic; common very fine roots; many very fine irregular pores; 25 percent gravel and 2 percent cobbles; slightly acid; clear wavy boundary.

Bw—7 to 13 inches; pale brown (10YR 6/3) gravelly ashy coarse sandy loam, brown (10YR 4/3) moist; weak fine and medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; common very fine roots; many very fine irregular pores; 25 percent gravel and 5 percent cobbles; moderately acid; clear wavy boundary.

C1—13 to 25 inches; light yellowish brown (10YR 6/4) very gravelly loamy coarse sand, dark yellowish brown (10YR 4/4) moist; massive; slightly hard, friable, nonsticky and nonplastic; common very fine roots; many fine and medium interstitial pores; 30 percent gravel and 10 percent cobbles; slightly acid; clear wavy boundary.

C2—25 to 61 inches; variegated very cobbly coarse sand; single grain; loose; few very fine roots; many fine and medium interstitial pores; 30 percent gravel, 20 percent cobbles, and 5 percent stones; neutral.

Typical Pedon Location

Map unit in which located: Springdale gravelly ashy coarse sandy loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 0.5 mile west of the junction of U.S. Highway 2 and Colbert Road; about 2,000 feet south and 3,500 feet west of the northeast corner of section 22, T. 27 N., R. 43 E.

Range in Characteristics

Profile

Thickness of volcanic ash influence—7 to 14 inches
Rock fragment content in particle-size control section—35 to 60 percent
Depth to sandy-skeletal horizons—10 to 19 inches
Reaction—moderately acid to neutral
Percentage of surface covered with cobbles or stones—0 to 0.1 percent

A horizon

Value—4 to 6 dry, 2 to 4 moist
Chroma—2 or 3 dry or moist
Clay content—2 to 8 percent
Gravel content—15 to 25 percent
Cobble content—0 to 5 percent
Stone content—0 to 5 percent
Total rock fragment content—15 to 30 percent

AB horizon

Texture—ashy coarse sandy loam, ashy loam
Clay content—2 to 8 percent
Gravel content—15 to 25 percent
Cobble content—0 to 5 percent
Stone content—0 to 5 percent
Total rock fragment content—15 to 30 percent

Bw horizon

Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy coarse sandy loam, ashy sandy loam
Clay content—2 to 8 percent
Gravel content—20 to 40 percent
Cobble content—0 to 10 percent
Total rock fragment content—20 to 50 percent

C1 horizon

Hue—10YR, 2.5Y, variegated
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy sand, loamy coarse sand, sand, coarse sand
Clay content—0 to 5 percent
Gravel content—25 to 50 percent
Cobble content—0 to 15 percent
Total rock fragment content—35 to 60 percent

C2 horizon

Hue—10YR, 2.5Y, variegated
Value—6 or 7 dry, 4 or 5 moist

Chroma—3 or 4 dry or moist
Texture—coarse sand
Clay content—0 to 5 percent
Gravel content—25 to 50 percent
Cobble content—5 to 30 percent
Stone content—0 to 10 percent
Total rock fragment content—35 to 70 percent

Staley Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits, shoulders, and backslopes of loess hills
Parent material: Loess
Slope range: 8 to 25 percent
Elevation: 2,400 to 2,640 feet
Average annual precipitation: 18 to 20 inches
Average annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 150 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Calcic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 7 inches; brown (10YR 5/3) silt loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure; very friable, soft, slightly sticky and nonplastic; many very fine roots throughout; many medium irregular pores and many very fine tubular pores; noneffervescent; slightly acid; clear smooth boundary.

A—7 to 12 inches; brown (10YR 4/3) silt loam, very dark grayish brown (10YR 3/2) moist; moderate coarse subangular blocky structure parting to moderate fine granular; friable, slightly hard, slightly sticky and nonplastic; many very fine roots throughout; many very fine and few fine tubular pores and many medium irregular pores; noneffervescent; slightly acid; clear smooth boundary.

Bw—12 to 23 inches; yellowish brown (10YR 5/4) silt loam, brown (10YR 4/3) moist; moderate fine prismatic structure parting to moderate medium subangular blocky; very friable, soft, slightly sticky and nonplastic; many very fine roots throughout; many very fine and few fine tubular pores and many medium irregular pores; noneffervescent; neutral; clear smooth boundary.

Bk1—23 to 37 inches; light yellowish brown (10YR 6/4) silt loam, brown (10YR 4/3) moist; moderate fine prismatic structure parting to moderate medium subangular blocky; very friable, soft, slightly sticky and nonplastic; many very fine roots throughout; few fine and many very fine tubular pores; few medium carbonate masses on faces of peds; strongly effervescent; slightly alkaline; clear wavy boundary.

Bk2—37 to 60 inches; brown (10YR 5/3) and yellowish brown (10YR 5/4) silt loam, dark yellowish (10YR 3/3) and dark brown (10YR 3/4) moist; moderate fine prismatic structure parting to weak fine subangular blocky; very friable, soft, slightly sticky and nonplastic; many very fine roots throughout; many very fine tubular pores; common prominent very fine and fine carbonate masses and threads on faces of peds, in pores, and in root channels; violently effervescent; slightly alkaline.

Typical Pedon Location

Map unit in which located: Staley-Naff complex, 8 to 25 percent slopes
Location in survey area: Spokane County, Washington, about 8 miles south of Spangle, Washington; about 1,600 feet north and 850 feet west of the southeast corner of section 7, T. 21 N., R. 43 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 12 inches
Depth to secondary carbonates—10 to 24 inches

A horizon
Value—4 or 5 dry
Chroma—2 or 3 dry or moist
Clay content—15 to 20 percent
Reaction—slightly acid, neutral

Bw horizon (where present)
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—18 to 20 percent
Reaction—slightly acid, neutral

Bk horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Clay content—15 to 22 percent
Reaction—neutral to moderately alkaline

Stapaloop Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash terraces and plains
Parent material: Glaciofluvial deposits with an influence of volcanic ash and loess in the upper part
Slope range: 0 to 25 percent
Elevation: 1,900 to 2,400 feet
Average annual precipitation: 20 to 26 inches
Average annual air temperature: 42 to 49 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Coarse-loamy, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 8 inches; brown (10YR 5/3) ashy fine sandy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and nonplastic; many fine roots; many fine irregular pores; slightly acid; abrupt smooth boundary.
Bw1—8 to 14 inches; yellowish brown (10YR 5/4) ashy fine sandy loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; soft, very friable,

slightly sticky and nonplastic; many fine roots; many fine irregular pores; slightly acid; clear wavy boundary.

Bw2—14 to 22 inches; light yellowish brown (10YR 6/4) ashy fine sandy loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and nonplastic; many fine roots; many fine irregular pores; slightly acid; clear wavy boundary.

E and Bt1—22 to 32 inches; pale brown (10YR 6/3) fine sandy loam, brown (10YR 4/3) moist (E part); moderate fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common 1/4-inch-thick faint light yellowish brown (10YR 6/4) continuous wavy bands of fine sandy loam (lamellae), dark yellowish brown (10YR 4/4) moist (Bt part); few fine roots; many fine irregular pores; neutral; clear wavy boundary.

E and Bt2—32 to 52 inches; light yellowish brown (2.5Y 6/4) loamy fine sand, olive brown (2.5Y 4/4) moist (E part); weak medium subangular blocky structure; slightly hard, very friable, nonsticky and nonplastic; common 1/8-inch-thick faint light yellowish brown (10YR 6/4) continuous wavy bands of fine sandy loam (lamellae), dark yellowish brown (10YR 4/4) moist (Bt part); few fine roots; many fine interstitial pores; neutral; clear wavy boundary.

E and Bt3—52 to 60 inches; light yellowish brown (2.5Y 6/4) loamy fine sand, olive brown (2.5Y 4/4) moist (E part); weak medium subangular blocky structure; slightly hard, friable, slightly sticky and nonplastic; common 1/2-inch-thick faint light yellowish brown (10YR 6/4) continuous wavy bands of fine sandy loam (lamellae), dark yellowish brown (10YR 4/4) moist (Bt part); few fine roots; many fine interstitial pores; neutral.

Typical Pedon Location

Map unit in which located: Stapaloop ashy fine sandy loam, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 1.5 miles southwest of Deer Park, Washington; about 700 feet south and 1,950 feet east of the northwest corner of section 8, T. 28 N., R. 42 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—4 to 9 inches
Thickness of volcanic ash influence—7 to 23 inches
Reaction—slightly acid or neutral throughout

A horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Clay content—4 to 8 percent
Gravel content—0 to 5 percent

Bw horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy fine sandy loam, ashy sandy loam
Clay content—4 to 8 percent
Gravel content—0 to 5 percent

E and Bt horizon

E part:
Hue—10YR, 2.5Y
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—fine sandy loam, loamy sand, loamy fine sand, sandy loam

Clay content—2 to 6 percent
Gravel content—0 to 10 percent

B part:
Value—5 or 6 dry
Combined thickness of lamellae—less than 6 inches

C horizon (where present)
Texture—sand, loamy sand

Stien Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash plains
Parent material: Thick mantle of volcanic ash over gravelly and sandy outwash
Slope range: 0 to 30 percent
Elevation: 1,700 to 2,700 feet
Average annual precipitation: 22 to 30 inches
Average annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Ashy-skeletal over loamy-skeletal, aniso, glassy over isotic, frigid Typic Vitrixerands

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oe—0 to 1 inch; moderately decomposed plant material.
A—1 to 3 inches; grayish brown (10YR 5/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure; very friable, soft, slightly sticky and slightly plastic; common very fine to coarse roots throughout; many very fine irregular and tubular pores; 10 percent subrounded gravel; slightly acid; clear smooth boundary.
Bw1—3 to 8 inches; light yellowish brown (10YR 6/4) ashy silt loam, dark yellowish brown (10YR 3/4) moist; weak medium subangular blocky structure; very friable, soft, slightly sticky and slightly plastic; common very fine to coarse roots throughout; many very fine irregular and tubular pores; 10 percent subrounded gravel and 2 percent subrounded cobbles; slightly acid; clear wavy boundary.
Bw2—8 to 16 inches; light yellowish brown (10YR 6/4) ashy silt loam, dark yellowish brown (10YR 4/4) moist; weak coarse subangular blocky structure; very friable, soft, slightly sticky and slightly plastic; common fine to coarse roots; many very fine irregular and tubular pores; 10 percent subrounded gravel and 4 percent subrounded cobbles; moderately acid; abrupt wavy boundary.
Bw3—16 to 24 inches; brownish yellow (10YR 6/6) very stony ashy silt loam, light yellowish brown (10YR 6/4) moist; weak coarse subangular blocky structure; very friable, soft, slightly sticky and slightly plastic; common fine to coarse roots; many very fine irregular and tubular pores; 5 percent subrounded gravel, 10 percent subrounded cobbles, and 20 percent subrounded stones; strongly acid; clear irregular boundary.
2Bw4—24 to 31 inches; light yellowish brown (10YR 6/4) very cobbly very fine sandy loam, dark yellowish brown (10YR 4/4) moist; weak medium subangular blocky structure; very friable, soft, slightly sticky and slightly plastic; few very fine and fine roots; many very fine and fine irregular and tubular pores; 20 percent subrounded gravel, 20 percent subrounded cobbles, and 10 percent subrounded stones; moderately acid; abrupt irregular boundary.

2BC—31 to 48 inches; very pale brown (10YR 7/4) very gravelly loamy sand, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; very friable, soft, nonsticky and nonplastic; few very fine roots; many very fine and fine irregular and interstitial pores; 40 percent subrounded gravel, 10 percent subrounded cobbles, and 5 percent subrounded stones; slightly acid; clear irregular boundary.

2C—48 to 60 inches; variegated extremely gravelly coarse sand; massive; loose, nonsticky and nonplastic; many medium interstitial pores; 45 percent subrounded gravel, 15 percent subrounded cobbles, and 5 percent subrounded stones; slightly acid.

Typical Pedon Location

Map unit in which located: Stien ashy silt loam, 0 to 8 percent slopes, very stony

Location in survey area: Spokane County, Washington, about 4 miles east of Deer Park, Washington; about 1,400 feet north and 2,700 feet west of the southeast corner of section 2, T. 28 N., R. 43 E.

Range in Characteristics

Profile

Thickness of volcanic ash mantle—14 to 24 inches
Percentage of surface covered with subrounded stones—0.1 to 3 percent

A horizon

Value—4 to 6 dry, 2 to 4 moist
Chroma—2 or 3 dry or moist
Clay content—3 to 10 percent
Gravel content—0 to 10 percent
Cobble content—0 to 3 percent
Stone content—0 to 3 percent
Total rock fragment content—0 to 15 percent
Reaction—slightly acid

Bw1 and Bw2 horizons

Value—5 or 7 dry, 3 to 5 moist
Chroma—4 to 6 dry or moist
Texture—ashy silt loam, ashy very fine sandy loam
Clay content—3 to 10 percent
Gravel content—5 to 25 percent
Cobble content—0 to 5 percent
Stone content—0 to 3 percent
Total rock fragment content—5 to 30 percent
Reaction—moderately acid, slightly acid

Bw3 horizon

Value—5 to 7 dry, 3 to 6 moist
Chroma—4 to 6 dry or moist
Clay content—3 to 10 percent
Gravel content—5 to 30 percent
Cobble content—0 to 15 percent
Stone content—0 to 25 percent
Total rock fragment content—35 to 55 percent
Reaction—strongly acid to slightly acid

2Bw horizon

Value—5 or 6 dry, 3 or 4 moist
Chroma—4 to 6 dry or moist

Clay content—4 to 10 percent
Texture—sandy loam, loam, very fine sandy loam
Gravel content—10 to 30 percent
Cobble content—10 to 25 percent
Stone content—10 to 30 percent
Total rock fragment content—35 to 55 percent
Reaction—moderately acid, slightly acid

2BC horizon (where present)
Value—5 to 7 dry, 3 or 4 moist
Chroma—4 to 6 dry or moist
Clay content—3 to 5 percent
Gravel content—20 to 45 percent
Cobble content—10 to 35 percent
Stone content—5 to 20 percent
Total rock fragment content—45 to 85 percent
Reaction—moderately acid, slightly acid

2C horizon
Clay content—0 to 3 percent
Gravel content—35 to 50 percent
Cobble content—0 to 20 percent
Stone content—0 to 15 percent
Total rock fragment content—65 to 85 percent
Reaction—moderately acid, slightly acid

Stutler Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash terraces and outwash plains
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 15 percent
Elevation: 1,900 to 2,500 feet
Average annual precipitation: 15 to 20 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, isotic, mesic Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed plant material; 1/16-inch-thick discontinuous band of 1980's Mount St. Helens ash along boundary between Oi and A horizons.
A—1 to 5 inches; brown (10YR 5/3) gravelly ashy silt loam, very dark grayish brown (10YR 3/2) moist; moderate fine and medium subangular blocky structure; slightly hard, very friable, nonsticky and slightly plastic; common very fine and medium and few fine and coarse roots; common very fine tubular and irregular pores; 3 percent subangular basalt cobbles and 20 percent subangular and subrounded basalt gravel; slightly acid; clear smooth boundary.
Bw1—5 to 12 inches; pale brown (10YR 6/3) gravelly ashy silt loam, brown (10YR 4/3) moist; moderate medium and coarse subangular blocky structure; slightly hard,

very friable, slightly sticky and slightly plastic; common very fine, coarse, and very coarse, few fine, and many medium roots; common very fine tubular and irregular pores; 25 percent subangular and subrounded basalt gravel and 5 percent subangular basalt cobbles; slightly acid; clear smooth boundary.

Bw2—12 to 22 inches: light yellowish brown (10YR 6/4) very cobbly silt loam, brown (10YR 4/3) moist; moderate fine and medium subangular blocky structure; moderately hard, very friable, slightly sticky and slightly plastic; common very fine and coarse, few fine and very coarse, and many medium roots; common very fine and few fine irregular pores and common very fine and few medium tubular pores; 30 percent subangular and subrounded basalt gravel, 25 percent subangular basalt cobbles, and 3 percent subangular basalt stones; slightly acid; clear smooth boundary.

Bw3—22 to 32 inches; light yellowish brown (10YR 6/4) extremely cobbly loam, brown (10YR 4/3) moist; moderate fine and medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; few very fine, fine, and coarse and common medium roots; common very fine and fine irregular pores and common very fine and few medium tubular pores; 45 percent subangular and subrounded basalt gravel, 25 percent subangular basalt cobbles, and 4 percent subangular basalt stones; neutral; clear wavy boundary.

Bq1—32 to 42 inches; pale brown (10YR 6/3) extremely gravelly coarse sandy loam, brown (10YR 4/3) moist; single grain; soft, loose, nonsticky and nonplastic; few very fine, fine, and coarse and common medium roots; common very fine and fine irregular pores; 20 percent discontinuous distinct dark brown (7.5YR 3/3) silica coatings on underside of rock fragments; 55 percent subangular and subrounded basalt gravel, 20 percent subangular basalt cobbles, and 2 percent subangular basalt stones; neutral; clear irregular boundary.

Bq2—42 to 61 inches; variegated extremely gravelly loamy coarse sand; single grain; loose, nonsticky and nonplastic; few fine, coarse, and very coarse and common medium roots; common very fine, fine, medium, and coarse interstitial pores; 10 percent patchy distinct brown (10YR 4/3) silica coatings on underside of rock fragments; 74 percent subangular and subrounded basalt gravel, 10 percent subangular basalt cobbles, and 1 percent subangular basalt stones; neutral.

Typical Pedon Location

Map unit in which located: Stutler-Springdale complex, 3 to 15 percent slopes

Location in survey area: Spokane County, Washington, about 5 miles southeast of Marshall, Washington, just west of U.S. Route 195; about 1,800 feet east and 1,950 feet south of the northwest corner of section 8, T. 23 N., R. 43 E.

Range in Characteristics

Profile

Depth to sandy-skeletal horizons—40 to 55 inches

Thickness of volcanic ash influence—7 to 14 inches

Rock fragment content in particle-size control section (weighted average)—35 to 80 percent

A horizon

Hue—7.5YR, 10YR

Value—3 to 6 dry or moist

Chroma—2 to 4 dry or moist

Texture—ashy silt loam

Clay content—8 to 20 percent

Gravel content—15 to 25 percent

Cobble content—0 to 10 percent

Stone content—0 to 10 percent
Boulder content—0 to 5 percent
Total rock fragment content—15 to 30 percent

Bw1 horizon
Hue—7.5YR, 10YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy silt loam, ashy loam
Clay content—7 to 18 percent
Gravel content—10 to 35 percent
Cobble content—0 to 15 percent
Stone content—0 to 10 percent
Boulder content—0 to 5 percent
Total rock fragment content—15 to 50 percent

Bw2 and Bw3 horizons
Hue—7.5YR, 10YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, loam, sandy loam, coarse sandy loam
Clay content—4 to 18 percent
Gravel content—10 to 60 percent
Cobble content—5 to 35 percent
Stone content—0 to 35 percent
Boulder content—0 to 40 percent
Total rock fragment content—35 to 75 percent
Silica accumulation—coatings on underside of rock fragments in some pedons
Reaction—slightly acid, neutral

Bq horizon
Hue—10YR, 7.5YR, variegated
Value—5 to 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loam, sandy loam, or coarse sandy loam in upper part; loamy coarse sand, sand, or coarse sand in lower part
Clay content—4 to 18 percent in upper part, 0 to 7 percent in lower part
Gravel content—10 to 75 percent
Cobble content—0 to 40 percent
Stone content—0 to 40 percent
Boulder content—0 to 40 percent
Total rock fragment content—35 to 85 percent
Reaction—neutral

Swakane Series

Depth class: Shallow
Drainage class: Well drained
Position on landscape: Summits, shoulders, and backslopes of ridges, hills, and mountains
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from gneiss, schist, or granite
Slope range: 3 to 30 percent
Elevation: 1,900 to 3,400 feet
Average annual precipitation: 17 to 23 inches

Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 130 days

Taxonomic class: Loamy-skeletal, mixed, superactive, mesic Lithic Ultic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 1 inch; slightly decomposed needles, grass, and twigs.
A—1 to 3 inches; grayish brown (10YR 5/2) gravelly ashy loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine irregular pores; 15 percent gravel and 2 percent cobbles; moderately acid; clear wavy boundary.
AB—3 to 9 inches; brown (10YR 5/3) gravelly ashy loam, dark brown (10YR 3/3) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine roots; common very fine and fine irregular pores; 20 percent gravel and 10 percent cobbles; slightly acid; clear wavy boundary.
Bw—9 to 13 inches; pale brown (10YR 6/3) very cobbly ashy sandy loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine and few medium and coarse roots; common very fine and fine pores; 25 percent gravel and 20 percent cobbles; moderately acid; clear wavy boundary.
C1—13 to 17 inches; very pale brown (10YR 7/3) very gravelly sandy loam, brown (10YR 5/3) moist; massive; slightly hard, friable, nonsticky and nonplastic; few very fine, fine, and medium roots; many very fine and fine interstitial pores; 45 percent gravel and 5 percent cobbles; 50 percent fine mica flakes; slightly acid; gradual wavy boundary.
C2—17 to 19 inches; variegated very gravelly loamy sand; massive; slightly hard, friable, nonsticky and nonplastic; few very fine and fine roots; many very fine and fine interstitial pores; 2 percent cobbles and 50 percent gravel; 50 percent very fine mica flakes; slightly acid; abrupt wavy boundary.
R—19 inches; indurated gneiss.

Typical Pedon Location

Map unit in which located: Spokane-Swakane complex, 15 to 30 percent slopes
Location in survey area: Spokane County, Washington, about 3.5 miles north of Mica, Washington; about 610 feet south and 440 feet east of the northwest corner of section 2, T. 24 N., R. 44 E.

Range in Characteristics

Profile
Depth to bedrock—10 to 20 inches (lithic)
Thickness of mollic epipedon—7 to 12 inches
Thickness of volcanic ash influence—7 to 12 inches
Reaction—moderately acid, slightly acid

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—7 to 15 percent
Gravel content—15 to 30 percent
Cobble content—0 to 5 percent
Total rock fragment content—15 to 30 percent

AB horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—7 to 15 percent
Gravel content—15 to 35 percent
Cobble content—0 to 10 percent
Total rock fragment content—15 to 35 percent

Bw horizon
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy loam
Clay content—5 to 10 percent
Gravel content—25 to 50 percent
Cobble content—0 to 25 percent
Total rock fragment content—35 to 60 percent

C horizon
Hue—10YR, variegated
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—sandy loam, loamy sand
Clay content—5 to 10 percent
Gravel content—30 to 50 percent
Cobble content—0 to 20 percent
Total rock fragment content—35 to 60 percent

Taney Series

Depth class: Moderately deep to a fragipan
Drainage class: Moderately well drained
Position on landscape: Summits, shoulders, and backslopes of hills on basalt plateaus
Parent material: Volcanic ash over loess
Slope range: 3 to 20 percent
Elevation: 2,560 to 3,280 feet
Average annual precipitation: 25 to 28 inches
Average annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Fine-silty, mixed, superactive, frigid Vitrandic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 1 inch; slightly decomposed needles, twigs, leaves, bark, and cones.
Oe—1 to 2 inches; moderately decomposed organic matter mixed with 1980's Mount St. Helens volcanic ash.
A—2 to 4 inches; very dark gray (10YR 3/1) ashy silt loam, grayish brown (10YR 5/2) dry; weak fine subangular blocky structure parting to moderate very fine and fine granular; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine, common medium, and few coarse roots; many very fine tubular pores; neutral; clear wavy boundary.
BA—4 to 15 inches; very dark grayish brown (10YR 3/2) ashy silt loam, brown (10YR 5/3) dry; weak and moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine, common

medium, and few coarse roots; many very fine and few medium tubular pores; slightly acid; gradual wavy boundary.

Bw—15 to 22 inches; dark brown (10YR 3/3) silt loam, brown (10YR 5/3) dry; weak fine and medium subangular blocky structure; moderately hard, friable, slightly sticky and slightly plastic; many very fine, common medium, and few coarse roots; many very fine and few fine and medium tubular pores; few very fine manganese masses; neutral; gradual wavy boundary.

Bt—22 to 29 inches; dark brown (10YR 3/3) silt loam, pale brown (10YR 6/3) dry; weak and moderate medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; common very fine and medium and few coarse roots; many very fine and fine and few medium tubular pores; common faint continuous clay films on faces of peds; few very fine manganese masses; slightly acid; abrupt wavy boundary.

EBc—29 to 31 inches; light olive brown (2.5Y 5/3) silt loam, light gray (2.5Y 7/2) dry; weak fine and medium subangular blocky structure; moderately hard, friable, slightly sticky and slightly plastic; common very fine and few medium and coarse roots; many very fine and fine and few medium tubular pores; about 90 percent of horizon is uncoated silt grains (E material) and 10 percent is B material; many very fine and few fine iron-manganese concretions; common fine prominent iron masses that are light yellowish brown and yellowish brown (10YR 6/4 and 5/4) dry; very strongly acid; abrupt wavy boundary.

Btxcb1—31 to 37 inches; mixed brown and dark yellowish brown (10YR 4/3 and 4/4) silty clay loam, mixed yellowish brown and light yellowish brown (10YR 5/4 and 6/4) dry; moderate medium prismatic structure; very hard, extremely firm and brittle, moderately sticky and moderately plastic; common very fine and few fine, medium, and coarse roots between peds; many very fine and fine and few medium tubular pores; many prominent discontinuous clay films that are brown (7.5YR 4/3) dry and on faces of peds; about 15 percent E material that is white (10YR 8/1) dry and on vertical and top faces of peds; common very fine and few fine iron-manganese concretions; about 60 percent fragic material; very strongly acid; gradual wavy boundary.

Btxcb2—37 to 53 inches; yellowish brown (10YR 5/4) silty clay loam, light yellowish brown (10YR 6/4) dry; weak fine and medium prismatic structure; very hard, extremely firm and brittle, moderately sticky and moderately plastic; few very fine, fine, and medium roots between peds; many very fine and fine and few medium tubular pores; many prominent discontinuous clay films that are brown (7.5YR 4/3) dry and on faces of peds and in pores and few continuous silt coatings that are light gray (10YR 7/2) dry and E material on vertical and top faces of peds; about 75 percent fragic material; strongly acid; gradual wavy boundary.

Btxb—53 to 60 inches; yellowish brown (10YR 5/4) silty clay loam, very pale brown (10YR 7/4) dry; weak fine and medium prismatic structure; very hard, extremely firm, moderately sticky and moderately plastic; few very fine, fine, and medium roots between peds; many very fine and fine tubular pores; many distinct continuous clay films that are brown (7.5YR 4/3) dry and on faces of peds and few discontinuous silt coatings that are light gray (10YR 7/2) dry and E material on vertical and top faces of peds; few very fine iron-manganese concretions; about 60 percent fragic material; slightly acid.

Typical Pedon Location

Map unit in which located: Taney ashy silt loam, 8 to 20 percent slopes

Location in survey area: Benewah County, Idaho, about 5.5 miles west of the town of Plummer, Idaho; about 1,875 feet north and 250 feet west of the southeast corner of section 18, T. 46 N., R. 5 W.

Range in Characteristics

Profile
Depth to fragipan—23 to 40 inches
Depth to perched water table—16 to 22 inches in February, more than 16 inches in March through April
Depth to redoximorphic features—16 to 30 inches
Thickness of volcanic ash influence—10 to 15 inches

A horizon
Hue—10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 moist, 2 or 3 dry
Texture—ashy silt loam
Clay content—15 to 23 percent
Reaction—slightly acid, neutral

BA horizon
Hue—10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Texture—ashy silt loam
Clay content—15 to 23 percent
Reaction—slightly acid, neutral

Bw or Bt horizon
Hue—10YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silt loam
Clay content—16 to 23 percent
Reaction—slightly acid, neutral

EBc horizon
Hue—10YR
Value—6 or 7 dry, 4 or 5 moist
Chroma—2 to 4 dry, 3 moist
Texture—silt loam
Clay content—10 to 20 percent
Reaction—very strongly acid to moderately acid

Ec or E horizon (where present)
Hue—10YR, 2.5Y
Value—6 to 8 dry, 4 to 6 moist
Chroma—1 to 4 dry, 3 or 4 moist
Texture—silt loam
Clay content—10 to 18 percent
Reaction—strongly acid to slightly acid

Btxcb horizon, or BtxbE horizon (where present)
Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, silt loam
Clay content—24 to 34 percent
Gravel content—0 to 5 percent

Total rock fragment content—0 to 5 percent
Reaction—very strongly acid or strongly acid

Btxb horizon, or Btb horizon (where present)
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, silt loam
Clay content—23 to 38 percent
Gravel content—0 to 5 percent
Total rock fragment content—0 to 5 percent
Reaction—moderately acid to neutral

Tekoa Series

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Shoulders, summits, and backslopes of hills and mountains
Parent material: Volcanic ash and loess over colluvium and residuum derived from metasedimentary rock
Slope range: 10 to 65 percent
Elevation: 2,600 to 3,700 feet
Average annual precipitation: 20 to 35 inches
Average annual air temperature: 45 to 50 degrees F
Frost-free period: 90 to 140 days

Taxonomic class: Loamy-skeletal, mixed, superactive, mesic Vitrandic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 7 inches; brown (10YR 4/3) gravelly ashy silt loam, very dark brown (10YR 2/2) and very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure parting to moderate medium granular; slightly hard, very friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine tubular and fine irregular pores; 30 percent quartzite gravel; neutral; as much as 0.5 inch 1980's Mount St. Helens ash mixed in horizon; clear smooth boundary.

A2—7 to 13 inches; brown (10YR 5/3) very cobbly silt loam, very dark grayish brown (10YR 3/2) moist; weak medium subangular blocky structure parting to moderate fine granular; slightly hard, very friable, slightly sticky and slightly plastic; common very fine, fine, and medium roots; common very fine and fine tubular pores and common medium irregular pores; 20 percent quartzite gravel and 20 percent quartzite cobbles; neutral; clear wavy boundary.

BA—13 to 17 inches; brown (10YR 4/3) very cobbly silt loam, dark brown (10YR 3/3) moist; weak medium subangular blocky structure parting to moderate fine angular blocky; slightly hard, friable, moderately sticky and moderately plastic; common very fine and fine roots; common very fine and fine tubular pores and common medium irregular pores; 20 percent quartzite gravel and 35 percent quartzite cobbles; slightly acid; clear wavy boundary.

Bt1—17 to 27 inches; brown (7.5YR 5/4) very cobbly silty clay loam, brown (7.5YR 4/4) moist; weak medium subangular blocky structure; moderately hard, friable, moderately sticky and moderately plastic; common very fine and fine roots; common very fine and fine tubular pores and common medium irregular pores;

20 percent quartzite gravel, 5 percent quartzite paragravel, and 25 percent quartzite cobbles; slightly acid; gradual wavy boundary.

Bt2—27 to 33 inches; yellowish brown (10YR 5/4) very gravelly silty clay loam, dark brown (10YR 3/3) and dark yellowish brown (10YR 3/4) moist; weak medium subangular blocky structure; moderately hard, friable, moderately sticky and moderately plastic; common very fine and fine roots; common very fine and fine tubular pores and common medium and coarse irregular pores; 40 percent quartzite gravel, 5 percent quartzite paragravel, and 10 percent quartzite cobbles; slightly acid; clear irregular boundary.

R—33 inches; metasedimentary rock.

Typical Pedon Location

Map unit in which located: Libertybutte-Tekoa complex, 5 to 30 percent slopes

Location in survey area: Benewah County, Idaho, about 4 miles west of the town of Tensed; about 850 feet north and 2,500 feet west of the southeast corner of section 7, T. 44 N., R. 5 W.

Range in Characteristics

Profile

Thickness of mollic epipedon—10 to 18 inches
Thickness of volcanic ash influence—7 to 12 inches
Depth to bedrock—20 to 40 inches (lithic)

A1 and A2 horizons

Hue—10YR
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—10 to 22 percent
Texture—ashy silt loam, silt loam
Gravel content—10 to 30 percent
Cobble content—5 to 20 percent
Total rock fragment content—15 to 40 percent
Reaction—slightly acid, neutral

BA horizon (where present)

Hue—10YR, 7.5YR
Value—4 or 5 dry, 2 to 4 moist
Chroma—2 to 4 dry or moist
Texture—silt loam
Clay content—15 to 25 percent
Gravel content—15 to 35 percent
Cobble content—10 to 35 percent
Total rock fragment content—30 to 55 percent
Reaction—slightly acid, neutral

Bt horizon

Hue—10YR, 7.5YR
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—silty clay loam, clay loam, loam
Clay content—21 to 35 percent
Gravel content—25 to 50 percent
Cobble content—10 to 30 percent

Total rock fragment content—40 to 70 percent
Reaction—slightly acid, neutral

Thatuna Series

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Backslopes, footslopes, and summits of loess hills
Parent material: Recent loess over older loess
Slope range: 3 to 30 percent
Elevation: 2,100 to 2,880 feet
Average annual precipitation: 17 to 22 inches
Average annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 150 days

Taxonomic class: Fine-silty, mixed, superactive, mesic Oxyaquic Argixerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 6 inches; dark grayish brown (10YR 4/2) silt loam, very brown (10YR 2/2) moist; moderate fine and medium subangular blocky structure parting to moderate fine granular; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine interstitial and tubular pores; neutral; gradual smooth boundary.

A2—6 to 12 inches; very dark grayish brown (10YR 3/2) silt loam, black (10YR 2/1) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine interstitial and tubular pores; slightly acid; gradual smooth boundary.

AB—12 to 19 inches; brown (10YR 5/3) silt loam, dark brown (10YR 3/3) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine and fine interstitial and tubular pores; slightly acid; clear smooth boundary.

Bw—19 to 28 inches; yellowish brown (10YR 5/4) silt loam, dark yellowish brown (10YR 3/4) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; common very fine and fine interstitial and tubular pores; slightly acid; abrupt smooth boundary.

E—28 to 35 inches; light brownish gray (10YR 6/2) silt loam, dark grayish brown (10YR 4/2) moist; weak coarse angular blocky structure parting to massive; slightly hard, friable, slightly sticky and slightly plastic; few very fine and fine roots; common very fine and fine interstitial and tubular pores; slightly acid; clear irregular boundary.

Btb/E—35 to 43 inches; mixed pale brown (10YR 6/3) and light gray (10YR 7/2) silty clay loam, brown (10YR 4/3) and grayish brown (10YR 5/2) moist; strong medium and coarse angular blocky structure; hard, firm, sticky and plastic; few very fine roots; many very fine tubular pores; few fine iron-manganese concretions; common distinct clay films on faces of peds and in pores; many thin grayish brown (10YR 5/2) silt coatings on faces of peds; neutral; gradual wavy boundary.

Btb1—43 to 52 inches; light yellowish brown (10YR 6/4) silty clay loam, brown (10YR 4/3) moist; strong coarse prismatic structure parting to moderate medium angular blocky; very hard, very firm, very sticky and very plastic; few very fine roots; few very fine tubular pores; common fine iron-manganese concretions; common distinct clay films on faces of peds and in pores; neutral; gradual wavy boundary.

Btb2—52 to 60 inches; light yellowish brown (10YR 6/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; strong coarse prismatic structure; hard, firm, sticky and plastic; few very fine roots; few very fine tubular pores; common distinct clay films on faces of peds and in pores; neutral.

Typical Pedon Location

Map unit in which located: Thatuna-Naff complex, 15 to 30 percent slopes
Location in survey area: Spokane County, Washington, about 5 miles south of Waverly, Washington; about 1,430 feet north and 920 feet west of the southeast corner of section 27, T. 21 N., R. 44 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—18 to 28 inches
Depth to perched water table—24 to 36 inches in February through April
Depth to redoximorphic features—24 to 36 inches
Depth to argillic horizon—30 to 40 inches

A horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry, 1 to 3 moist
Clay content—16 to 24 percent
Reaction—moderately acid to neutral

Bw horizon
Value—3 to 5 dry
Chroma—2 to 4 moist
Clay content—18 to 25 percent
Reaction—slightly acid, neutral

E horizon
Hue—10YR, 7.5YR
Value—6 or 7 dry, 3 to 5 moist
Clay content—10 to 15 percent
Reaction—slightly acid, neutral
Abundance of iron-manganese concretions—few to common

Btb horizon
Hue—10YR, 7.5YR
Value—5 or 6 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—silt loam, silty clay loam
Clay content—24 to 35 percent
Reaction—slightly acid, neutral
Abundance of iron-manganese concretions—none to common

Tilma Series

Depth class: Very deep
Drainage class: Moderately well drained
Position on landscape: Toeslopes of loess hills
Parent material: Recent loess over older loess
Slope range: 3 to 8 percent
Elevation: 2,320 to 2,700 feet
Mean annual precipitation: 18 to 22 inches

Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Fine, mixed, superactive, mesic Xeric Argialbolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 8 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; weak very fine granular structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine and few medium roots; many very fine interstitial pores; few uncoated (bleached) silt grains; moderately acid; abrupt smooth boundary.

A—8 to 14 inches; dark grayish brown (10YR 4/2) silt loam, very dark brown (10YR 2/2) moist; weak fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many fine and very fine roots; many very fine interstitial pores; slightly acid; clear smooth boundary.

Bw—14 to 20 inches; grayish brown (10YR 5/2) silt loam, very dark grayish brown (10YR 3/2) moist; weak medium prismatic structure parting to weak medium subangular blocky; hard, friable, sticky and plastic; many fine and very fine roots; many very fine and common fine tubular pores; some organic stains on faces of peds; many uncoated (bleached) silt grains; slightly acid; abrupt smooth boundary.

E—20 to 23 inches; light gray (10YR 7/2) silt loam, dark grayish brown (10YR 4/2) moist; massive; slightly hard, very friable, slightly sticky and slightly plastic; many fine and very fine roots; few very fine tubular pores; few fine black concretions; slightly acid; abrupt smooth boundary.

Btb1—23 to 30 inches; brown (7.5YR 5/3) silty clay, light yellowish brown (10YR 6/4) rubbed, brown (7.5YR 4/3) moist; strong medium columnar structure parting to weak medium and coarse subangular blocky; extremely hard, extremely firm, very sticky and very plastic; few fine and very fine roots that penetrate peds; many very fine tubular pores; continuous moderately thick clay films on peds; many small and medium black and brown concretions; moderately acid; abrupt smooth boundary.

Btb2—30 to 34 inches; brown (10YR 5/3) silty clay, light yellowish brown (10YR 6/4) rubbed, brown (7.5YR 5/3) moist; moderate medium prismatic structure; very hard, very firm, very sticky and very plastic; few fine roots; common very fine tubular pores; continuous moderately thick clay films on peds; many black and brown concretions that are more than 1 millimeter in diameter; slightly acid; abrupt smooth boundary.

Btb3—34 to 42 inches; brown (10YR 5/3) silty clay, light yellowish brown (10YR 6/4) rubbed, brown (7.5YR 4/3) moist, brown (7.5YR 5/3) rubbed and moist; strong medium subangular blocky structure; very hard, firm, sticky and plastic; few very fine roots; many very fine tubular pores; continuous moderately thick clay films on peds; slightly acid; abrupt smooth boundary.

Btb4—42 to 60 inches; light yellowish brown (10YR 6/4) silt loam, very pale brown (10YR 7/3) rubbed, yellowish brown (10YR 5/4) moist, brown (7.5YR 5/3) rubbed and moist; weak medium prismatic structure parting to strong medium and fine angular blocky; extremely hard, extremely firm, slightly sticky and slightly plastic; brittle and compact; common very fine tubular pores; continuous moderately thick clay films in pores; many small black concretions and patchy stains on peds; neutral.

Typical Pedon Location

Map unit in which located: Naff-Tilma complex, 3 to 20 percent slopes

Location in survey area: Benewah County, Idaho, about 3 miles southeast of Tekoa, Washington; about 560 feet south and 560 feet west of the northeast corner of section 25, T. 45 N., R. 6 W.

Range in Characteristics

Thickness of mollic epipedon—15 to 30 inches
Depth to albic horizon—15 to 30 inches
Depth to argillic horizon—20 to 30 inches
Depth to perched water table—18 to 25 inches in February and March
Depth to redoximorphic features—18 to 25 inches

A horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Clay content—15 to 20 percent
Reaction—moderately acid to neutral

Bw horizon, or Bt or BE horizon (where present)
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 or 3 dry or moist
Clay content—15 to 18 percent
Reaction—moderately acid to neutral

E horizon
Value—4 or 5 moist
Clay content—13 to 18 percent
Abundance and size of iron-manganese concretions—few to common, about 1 to 4 millimeters in diameter
Reaction—moderately acid to neutral

Btb1, Btb2, and Btb3 horizons
Hue—7.5YR, 10YR
Value—4 to 6 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—clay, silty clay, silty clay loam
Clay content—32 to 45 percent, averages more than 35 percent in particle-size control section
Reaction—moderately acid to neutral

Btb4 horizon
Horizon resembles weak fragipan in some pedons.
Texture—silt loam, silty clay loam
Clay content—18 to 30 percent
Reaction—slightly acid to neutral
Moist consistence—extremely firm to very firm

Torboy Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash terraces and footslopes of hills
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 15 percent
Elevation: 1,800 to 2,900 feet
Average annual precipitation: 20 to 30 inches

Average annual air temperature: 42 to 45 degrees
Frost-free period: 90 to 120 days

Taxonomic class: Sandy, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 0.5 inch; slightly decomposed plant material.
Oe—0.5 to 1 inch; moderately decomposed plant material.
A—1 to 7 inches; brown (10YR 5/3) fine gravelly ashy coarse sandy loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; soft, friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine and fine irregular pores; 15 percent fine gravel; neutral; abrupt smooth boundary.
Bw1—7 to 11 inches; light yellowish brown (10YR 6/4) fine gravelly ashy sandy loam, brown (10YR 4/3) moist; weak medium subangular blocky structure; soft, friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; common very fine and fine irregular pores; 15 percent fine gravel; slightly acid; clear wavy boundary.
Bw2—11 to 22 inches; very pale brown (10YR 7/4) fine gravelly ashy sandy loam, dark yellowish brown (10YR 4/4) moist; weak fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; common very fine and fine and few medium roots; common very fine and fine irregular pores; 15 percent fine gravel; slightly acid; abrupt smooth boundary.
C1—22 to 33 inches; light yellowish brown (2.5Y 6/4) fine gravelly loamy coarse sand, yellowish brown (10YR 5/4) moist; single grain; loose, nonsticky and nonplastic; few very fine, fine, and medium roots; many interstitial pores; 15 percent fine gravel; moderately acid; clear wavy boundary.
C2—33 to 45 inches; variegated gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few very fine, fine, and medium roots; many interstitial pores; 15 percent fine gravel; slightly acid; abrupt wavy boundary.
C3—45 to 60 inches; variegated very gravelly coarse sand; single grain; loose, nonsticky and nonplastic; few very fine, fine, and medium roots; many interstitial pores; 55 percent gravel; moderately acid.

Typical Pedon Location

Map unit in which located: Torboy-Blackprince complex, 8 to 15 percent slopes
Location in survey area: Spokane County, Washington, about 3 miles southeast of Camden, Washington; about 2,470 feet west and 2,130 feet north of the southeast corner of section 12, T. 29 N., R. 44 E.

Range in Characteristics

Profile
Thickness of ochric epipedon—3 to 7 inches
Thickness of volcanic ash influence—8 to 22 inches
Depth to sand or loamy sand—20 to 25 inches

A horizon
Value—5 or 6 dry, 2 or 3 moist
Chroma—2 to 4 dry or moist
Texture—ashy coarse sandy loam, ashy sandy loam
Clay content—5 to 10 percent
Gravel content—0 to 20 percent
Reaction—slightly acid, neutral

Bw1 horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy coarse sandy loam
Clay content—5 to 10 percent
Gravel content—0 to 25 percent
Reaction—moderately acid to neutral

Bw2 horizon
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy sandy loam, ashy coarse sandy loam, sandy loam, coarse sandy loam
Clay content—5 to 10 percent
Gravel content—0 to 25 percent
Reaction—moderately acid to neutral

C1 horizon
Hue—10YR, 2.5Y, variegated
Value—6 or 7 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—loamy coarse sand, coarse sand, sand
Clay content—0 to 5 percent
Gravel content—5 to 30 percent
Reaction—moderately acid to neutral

C2 horizon
Hue—10YR, 2.5Y, variegated
Value—6 to 8 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—coarse sand, loamy coarse sand, sand
Clay content—0 to 5 percent
Gravel content—10 to 45 percent
Reaction—strongly acid to slightly acid

C3 horizon
Hue—10YR, 2.5Y, variegated
Value—6 to 8 dry, 4 or 5 moist
Chroma—3 or 4 dry or moist
Texture—coarse sand, loamy coarse sand, sand
Clay content—0 to 5 percent
Gravel content—15 to 55 percent
Reaction—strongly acid to slightly acid

Tucannon Taxadjunct

Depth class: Moderately deep
Drainage class: Well drained
Position on landscape: Backslopes, summits, shoulders, and footslopes of hills on basalt plateaus of channeled scablands
Parent material: Loess mixed with a minor amount of volcanic ash over colluvium and residuum derived from basalt
Slope range: 0 to 35 percent
Elevation: 1,900 to 2,600 feet
Average annual precipitation: 15 to 18 inches

Average annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 140 days

Taxonomic class: Fine-loamy, mixed, superactive, mesic Vitrandic Haploxerolls

Taxadjunct Features

The Tucannon soils in this survey area are a taxadjunct to the series because they are not Pachic and have properties in the upper part that meet the criteria for the Vitrandic subgroup. These soils have more than 15 percent sand and gravel in the 0.1- to 75-millimeter fraction in the particle-size control section. These differences, however, do not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 5 inches; grayish brown (10YR 5/2) ashy silt loam, very dark brown (10YR 2/2) moist; weak medium granular structure; very friable, soft, slightly sticky and nonplastic; many very fine and few fine to coarse roots throughout; few very fine and fine irregular pores; 3 percent subangular basalt gravel; slightly acid; clear wavy boundary.

AB—5 to 10 inches; grayish brown (10YR 5/2) ashy silt loam, very dark grayish brown (10YR 3/2) moist; weak fine subangular blocky structure; very friable, slightly hard, nonsticky and nonplastic; many very fine and few fine and medium roots throughout; few very fine and fine irregular pores; 5 percent subangular basalt gravel; slightly acid; gradual wavy boundary.

Bw—10 to 21 inches; brown (10YR 5/3) gravelly ashy silt loam, dark yellowish brown (10YR 3/4) moist; moderate fine subangular blocky structure; very friable, slightly hard, moderately sticky and moderately plastic; many very fine and few fine roots throughout; few very fine and fine tubular pores and few very fine irregular pores; 18 percent subangular basalt gravel; slightly alkaline; gradual wavy boundary.

C—21 to 29 inches; dark yellowish brown (10YR 4/4) gravelly silt loam, dark brown (7.5YR 3/4) moist; massive; very friable, slightly hard, slightly sticky and slightly plastic; many very fine and few fine roots throughout; common fine and few medium irregular pores; 18 percent subangular basalt gravel; neutral; gradual irregular boundary.

R—29 inches; unweathered basalt.

Typical Pedon Location

Map unit in which located: Tucannon ashy silt loam, 0 to 8 percent slopes
Location in survey area: Spokane County, Washington, about 2.6 miles northwest of the town of Deep Creek, Washington; about 2,320 feet west and 159 feet north of the southeast corner of section 16, T. 25 N., R. 40 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—10 to 20 inches
Depth to bedrock—20 to 40 inches (lithic)
Thickness of volcanic ash influence—20 to 35 inches
Clay content in particle-size control section—18 to 25 percent

Ap horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—2 to 4 dry, 2 or 3 moist
Gravel content—0 to 15 percent

Clay content—10 to 20 percent
Reaction—slightly acid, neutral

AB horizon
Value—3 to 5 dry, 2 or 3 moist
Chroma—2 to 4 dry, 2 or 3 moist
Texture—ashy silt loam, ashy loam
Clay content—15 to 25 percent
Gravel content—0 to 15 percent
Reaction—slightly acid to slightly alkaline

Bw horizon, and Bt and BC horizons (where present)
Hue—10YR, 7.5YR
Value—5 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry, 2 to 4 moist
Texture—ashy silt loam, ashy loam, loam, silt loam
Clay content—18 to 25 percent
Gravel content—5 to 35 percent
Cobble content—0 to 5 percent
Total rock fragments—5 to 35 percent
Reaction—slightly alkaline, moderately alkaline

C horizon
Value—4 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry, 2 to 4 moist
Texture—silt loam, loam
Clay content—18 to 25 percent
Gravel content—5 to 35 percent
Cobble content—0 to 5 percent
Total rock fragment content—5 to 35 percent
Reaction—neutral, slightly alkaline

A Cr and an R horizon are in some pedons.

Uhlig Series

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Treads and risers of outwash terraces
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial deposits
Slope range: 0 to 25 percent
Elevation: 1,900 to 3,100 feet
Average annual precipitation: 15 to 23 inches
Average annual air temperature: 45 to 52 degrees F
Frost-free period: 100 to 140 days

Taxonomic class: Coarse-loamy, mixed, superactive, mesic Vitrandic Haploxerolls

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap1—0 to 4 inches; dark gray (10YR 4/1) ashy silt loam, black (10YR 2/1) moist; weak fine and medium granular structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and fine roots; common fine irregular pores; moderately acid; abrupt smooth boundary.

Ap2—4 to 10 inches; gray (10YR 5/1) ashy silt loam, very dark gray (10YR 3/1) moist; moderate thin and medium platy structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and fine roots; common fine irregular pores; slightly acid; abrupt smooth boundary.

A—10 to 18 inches; dark grayish brown (10YR 4/2) ashy loam, very dark brown (10YR 2/2) moist; weak medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and fine roots; common very fine irregular pores; neutral; clear wavy boundary.

2Bt1—18 to 32 inches; brown (10YR 5/3) loam, dark brown (10YR 3/3) moist; weak coarse prismatic structure parting to moderate medium subangular blocky; hard, firm, slightly sticky and slightly plastic; common fine roots; many very fine irregular pores; few faint patchy clay films on faces of peds and along pores; neutral; clear wavy boundary.

2Bt2—32 to 42 inches; pale brown (10YR 6/3) loam, brown (10YR 4/3) moist; weak coarse prismatic structure; slightly hard, friable, slightly sticky and slightly plastic; common fine roots; common fine irregular pores; few faint clay films along pores; many nodules 1/4 to 3/8 inch in diameter that are brown (7.5YR 4/4) moist; neutral; gradual wavy boundary.

2C—42 to 60 inches; very pale brown (10YR 7/3) very fine sandy loam, brown (10YR 5/3) moist; massive; slightly hard, very friable, slightly sticky and nonplastic; few fine roots; many very fine and few fine interstitial pores; neutral.

Typical Pedon Location

Map unit in which located: Brincken, moist-Uhlig complex, 0 to 8 percent slopes

Location in survey area: Spokane County, Washington, about 3 miles north of Millwood, Washington; 1,735 feet south and 1,194 feet east of the northwest corner of section 20, T. 26 N., R. 44 E.

Range in Characteristics

Profile

Thickness of mollic epipedon—18 to 30 inches

Thickness of volcanic ash influence—18 to 50 inches

Clay content in particle-size control section—5 to 18 percent (more than 15 percent particles that are coarser than very fine sand)

A horizon

Value—4 or 5 dry, 2 or 3 moist

Chroma—1 or 2 dry or moist

Texture—ashy silt loam in upper part, ashy silt loam or ashy loam in lower part

Clay content—5 to 18 percent

Gravel content—0 to 5 percent

Reaction—moderately acid to neutral

2Bt horizon, or Bw horizon (where present)

Value—5 to 7 dry, 3 to 5 moist

Chroma—3 or 4 dry or moist

Texture—silt loam or loam in upper part; silt loam, loam, sandy loam, or very fine sandy loam in lower part

Clay content—5 to 18 percent

Gravel content—0 to 5 percent in upper part, 0 to 15 percent in lower part

Reaction—slightly acid, neutral

2C horizon (where present)

Value—5 to 7 dry, 3 to 5 moist

Chroma—3 or 4 dry or moist

Texture—loam, sandy loam, very fine sandy loam

Clay content—5 to 15 percent
Gravel content—0 to 20 percent
Reaction—neutral, slightly alkaline

Some pedons have secondary calcium carbonates below a depth of 44 inches.

Vaywood Taxadjunct

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Summits and backslopes of mountains and ridges
Parent material: Thick mantle of volcanic ash over colluvium and residuum derived from granite and gneiss
Slope range: 15 to 60 percent
Elevation: 4,400 to 5,850 feet
Average annual precipitation: 40 to 50 inches
Average annual air temperature: 38 to 41 degrees F
Frost-free period: 30 to 60 days

Taxonomic class: Medial over loamy-skeletal, amorphic over isotic Typic Vitricryands

Taxadjunct Feature

The Vaywood soils in this survey area are a taxadjunct to the series because they do not meet the criteria for the Haplo great group. This difference, however, does not significantly affect the use, management, and interpretations of the soils.

Typical Pedon

Unless otherwise indicated, colors in the description are for moist soil.

Oi—0 to 2 inches; slightly decomposed needles and twigs.
Oe—2 to 3 inches; moderately decomposed plant material.
A—3 to 8 inches; brown (7.5YR 4/3) medial silt loam, light brown (7.5YR 6/3) dry; weak fine subangular blocky structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine and common medium roots; many very fine and fine irregular and tubular pores; 5 percent gravel; neutral; clear wavy boundary.
Bw1—8 to 20 inches; brown (7.5YR 4/4) medial silt loam, light brown (7.5YR 6/3) dry; weak fine and medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; common very fine, fine, medium, and coarse roots; many very fine and fine irregular and tubular pores; 5 percent gravel; neutral; clear wavy boundary.
Bw2—20 to 24 inches; yellowish brown (10YR 5/4) gravelly medial silt loam, light yellowish brown (10YR 6/4) dry; weak medium subangular blocky structure; soft, very friable, nonsticky and slightly plastic; few medium and coarse and common very fine roots; many very fine and fine tubular and irregular pores; 10 percent gravel and 5 percent cobbles; neutral; abrupt irregular boundary.
2Bw3—24 to 36 inches; yellowish brown (10YR 5/4) very cobbly sandy loam, light yellowish brown (10YR 6/4) dry; weak and moderate fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few fine, medium, and coarse and common very fine roots; common very fine and fine tubular and irregular pores; 20 percent gravel, 30 percent cobbles, and 5 percent stones; strongly acid; clear wavy boundary.
2BCt—36 to 44 inches; yellowish brown (10YR 5/4) extremely stony sandy loam, light yellowish brown (10YR 6/4) dry; weak fine subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; few very fine, fine, medium, and coarse roots; common very fine and fine tubular and irregular pores; two discontinuous

wavy lamellae about 1 to 2 centimeters thick; 2 percent fine mica flakes; 15 percent gravel, 30 percent cobbles, and 40 percent stones; moderately acid; clear wavy boundary.

2C1—44 to 50 inches; brown (10YR 5/3) extremely stony loamy sand, pale brown (10YR 6/3) dry; massive; slightly hard, friable, nonsticky and nonplastic; few very fine, fine, and coarse roots; common very fine and fine irregular pores; 5 percent fine and medium mica flakes; 5 percent gravel, 10 percent cobbles, and 60 percent stones; moderately acid; clear wavy boundary.

2C2—50 to 60 inches; reddish brown (2.5YR 5/3) extremely stony loamy sand, light reddish brown (2.5YR 7/3) dry; massive; slightly hard, friable, nonsticky and nonplastic; many very fine and fine irregular pores; 5 percent fine and medium mica flakes; 10 percent gravel, 10 percent cobbles, and 65 percent stones; moderately acid.

Typical Pedon Location

Map unit in which located: Vaywood medial silt loam, 30 to 60 percent slopes

Location in survey area: Spokane County, Washington, about 1.5 miles northeast of Mount Spokane, Washington; about 1,130 feet north and 750 feet west of the southeast corner of section 10, T. 28 N., R. 45 E.

Range in Characteristics

Profile

Depth to bedrock—more than 60 inches
Thickness of volcanic ash mantle—14 to 24 inches

A horizon

Hue—7.5YR, 10YR
Value—3 or 4 moist, 5 or 6 dry
Chroma—3 or 4 moist or dry
Clay content—3 to 9 percent
Gravel content—0 to 5 percent
Reaction—slightly acid, neutral

Bw horizon

Hue—7.5YR, 10YR
Value—4 or 5 moist, 5 or 6 dry
Chroma—4 to 6 moist, 3 or 4 dry
Clay content—3 to 9 percent
Gravel content—0 to 15 percent
Cobble content—0 to 5 percent
Total rock fragment content—0 to 20 percent
Reaction—slightly acid, neutral

2Bw horizon

Hue—10YR, 2.5YR
Value—4 or 5 moist, 5 to 7 dry
Chroma—3 or 4 moist or dry
Clay content—5 to 10 percent
Gravel content—15 to 30 percent
Cobble content—15 to 35 percent
Stone content—0 to 5 percent
Total rock fragment content—35 to 60 percent
Reaction—strongly acid, moderately acid

A 2Bt horizon is in some pedons.

2BCt or 2BC horizon (where present)
Hue—10YR, 2.5Y
Value—4 or 5 moist, 6 or 7 dry
Chroma—3 or 4 moist or dry
Clay content—5 to 10 percent
Gravel content—15 to 30 percent
Cobble content—20 to 35 percent
Stone content—10 to 40 percent
Total rock fragment content—60 to 85 percent
Reaction—strongly acid, moderately acid

2C horizon
Hue—10YR, 2.5Y
Value—4 or 5 moist, 6 or 7 dry
Chroma—3 or 4 moist or dry
Texture—sandy loam, loamy sand
Clay content—1 to 7 percent
Gravel content—5 to 20 percent
Cobble content—10 to 20 percent
Stone content—35 to 70 percent
Total rock fragment content—65 to 85 percent
Reaction—strongly acid, moderately acid

Wapal Series

Depth class: Very deep
Drainage class: Somewhat excessively drained
Position on landscape: Risers and treads of outwash terraces
Parent material: Sandy and gravelly glaciofluvial deposits with a minor amount of volcanic ash and loess in the upper part
Slope range: 0 to 60 percent
Elevation: 1,540 to 2,500 feet
Average annual precipitation: 18 to 25 inches
Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Sandy-skeletal, isotic, frigid Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Oi—0 to 2 inches; slightly decomposed plant material consisting of needles, cones, twigs, and moss.
A—2 to 6 inches; brown (10YR 5/3) gravelly ashy coarse sandy loam, very dark grayish brown (10YR 3/2) moist; moderate fine subangular blocky structure and moderate medium subangular blocky; slightly hard, very friable, nonsticky and nonplastic; few fine and common medium and very fine roots; common very fine interstitial pores; 20 percent gravel; neutral; clear smooth boundary.
Bw1—6 to 13 inches; yellowish brown (10YR 5/4) gravelly ashy coarse sandy loam, dark grayish brown (10YR 4/2) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; slightly hard, very friable, nonsticky and nonplastic; common fine, medium, coarse, and very coarse and few very fine roots; common very fine tubular and interstitial pores; 30 percent gravel; slightly acid; abrupt smooth boundary.

Bw2—13 to 17 inches; yellowish brown (10YR 5/4) very gravelly coarse sandy loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure parting to moderate fine subangular blocky; slightly hard, very friable, nonsticky and nonplastic; common fine, medium, coarse, and very coarse and few very fine roots; common very fine tubular and interstitial pores; 40 percent gravel; slightly acid; abrupt smooth boundary.

BC—17 to 21 inches; yellowish brown (10YR 5/4) very gravelly loamy coarse sand, brown (10YR 4/3) moist; weak medium subangular blocky structure parting to weak fine subangular blocky; soft, very friable, nonsticky and nonplastic; few fine and very fine and common medium and coarse roots; common very fine and fine interstitial pores; 55 percent gravel; slightly acid; abrupt wavy boundary.

C—21 to 30 inches; 20 percent very pale brown (10YR 8/2) and 80 percent light brownish gray (10YR 6/2) extremely gravelly coarse sand, 20 percent very pale brown (10YR 7/3) and 80 percent very dark gray (10YR 3/1) moist; single grain; loose, nonsticky and nonplastic; few very fine and fine and common medium and coarse roots; few fine and common very fine interstitial pores; 15 percent cobbles and 45 percent gravel; slightly acid; clear smooth boundary.

Bq1—30 to 36 inches; 20 percent very pale brown (10YR 8/2) and 80 percent light brownish gray (10YR 6/2) very gravelly coarse sand, 20 percent very pale brown (10YR 7/3) and 80 percent very dark gray (10YR 3/1) moist; single grain; loose, nonsticky and nonplastic; few very fine, fine, and coarse and common medium roots; few fine and common very fine interstitial pores; 5 percent discontinuous distinct pale brown (10YR 6/3) and 25 percent discontinuous distinct white (10YR 8/1) silica coatings on underside of rock fragments; 2 percent cobbles and 55 percent gravel; neutral; clear smooth boundary.

Bq2—36 to 62 inches; 20 percent very pale brown (10YR 8/2) and 80 percent light brownish gray (10YR 6/2) extremely gravelly coarse sand, 20 percent very pale brown (10YR 7/3) and 80 percent very dark gray (10YR 3/1) moist; single grain; loose, nonsticky and nonplastic; few very fine and fine roots; common very fine, fine, and medium interstitial pores; 10 percent discontinuous distinct pale brown (10YR 6/3) silica coatings on underside of rock fragments; 5 percent cobbles and 65 percent gravel; slightly acid.

Typical Pedon Location

Map unit in which located: Scoap-Wapal complex, 30 to 60 percent slopes

Location in survey area: Spokane County, Washington, about 6 miles west of Nine Mile Falls, Washington; about 500 feet north and 400 feet west of the southeast corner of section 20, T. 26 N., R. 41 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—3 to 10 inches

Thickness of volcanic ash influence—7 to 14 inches

Depth to sandy-skeletal horizons—10 to 20 inches from top of mineral soil material

A horizon

Value—4 or 5 dry

Chroma—2 to 4 moist

Clay content—0 to 7 percent

Gravel content—15 to 25 percent

Reaction—slightly acid, neutral

Bw horizon
Value—4 or 5 dry or moist
Chroma—2 or 3 moist, 3 or 4 dry
Texture—ashy coarse sandy loam or ashy sandy loam in upper part, coarse sandy loam or sandy loam in lower part
Clay content—0 to 7 percent
Gravel content—20 to 45 percent
Reaction—slightly acid, neutral

BC horizon (where present)
Value—5 or 6 dry, 3 or 4 moist
Chroma—3 or 4 dry or moist
Texture—loamy coarse sand, loamy sand
Clay content—0 to 4 percent
Gravel content—35 to 70 percent
Total rock fragment content—35 to 70 percent
Reaction—slightly acid, neutral

C horizon
Hue—10YR, variegated
Value—6 to 8 dry, 3 to 6 moist
Chroma—1 to 3 moist
Texture—coarse sand, sand, loamy coarse sand, loamy sand
Clay content—0 to 4 percent
Gravel content—35 to 65 percent
Cobble content—0 to 15 percent
Total rock fragment content—35 to 80 percent
Reaction—moderately acid, slightly acid

Bq horizon (where present)
Hue—10YR, variegated
Value—6 to 8 dry, 3 to 6 moist
Chroma—1 to 3 moist
Texture—coarse sand, sand, loamy coarse sand, loamy sand
Clay content—0 to 4 percent
Gravel content—35 to 70 percent
Cobble content—0 to 10 percent
Total rock fragment content—35 to 80 percent
Reaction—slightly acid, neutral

Wolfeson Series

Depth class: Very deep
Drainage class: Somewhat poorly drained
Position on landscape: Treads of relict glacial lake terraces and glaciofluvial outwash plains
Parent material: Loess mixed with a minor amount of volcanic ash over glaciofluvial and glaciolacustrine deposits
Slope range: 0 to 3 percent
Elevation: 2,000 to 2,300 feet
Average annual precipitation: 22 to 26 inches

Average annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 120 days

Taxonomic class: Coarse-loamy, isotic, frigid Oxyaquic Vitrandic Haploxerepts

Typical Pedon

Unless otherwise indicated, colors in the description are for dry soil.

Ap—0 to 9 inches; brown (10YR 5/3) ashy very fine sandy loam, dark brown (10YR 3/3) moist; moderate medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine pores; slightly acid; clear smooth boundary.

Bw1—9 to 21 inches; pale brown (10YR 6/3) ashy fine sandy loam, brown (10YR 4/3) moist; moderate medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; common very fine and fine roots; many very fine pores; slightly acid; gradual smooth boundary.

Bw2—21 to 37 inches; light yellowish brown (10YR 6/4) fine sandy loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, friable, nonsticky and nonplastic; few very fine and fine roots; few fine pores; common light yellowish brown (2.5Y 6/3) iron depletions and common dark yellowish brown (10YR 4/6) masses of oxidized iron; 1 percent gravel; neutral; clear wavy boundary.

C1—37 to 48 inches; pale yellow (2.5Y 7/4) clay loam, light olive brown (2.5Y 5/4) moist; massive; very hard, firm, moderately sticky and moderately plastic; few very fine and fine roots; many very fine pores; many light brownish gray (2.5Y 6/2) iron depletions and few dark yellowish brown (10YR 4/6) masses of oxidized iron; neutral; abrupt smooth boundary.

C2—48 to 53 inches; light yellowish brown (10YR 6/4) silty clay loam, dark yellowish brown (10YR 4/4) moist; massive; very hard, extremely firm, moderately sticky and moderately plastic; no visible roots; many fine pores; many light brownish gray (2.5Y 6/2) and common pale yellow (2.5Y 8/2) iron depletions; few black (10YR 2/1) masses of oxidized manganese and few dark yellowish brown (10YR 4/6) masses of oxidized iron; neutral; clear smooth boundary.

C3—53 to 60 inches; light yellowish brown (2.5Y 6/4) loamy fine sand, olive brown (2.5Y 4/4) moist; single grain; loose, nonsticky and nonplastic; no visible roots; many very fine and few medium interstitial pores; common black (10YR 2/1) masses of oxidized manganese and dark yellowish brown (10YR 4/6) masses of oxidized iron; neutral.

Typical Pedon Location

Map unit in which located: Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes
Location in survey area: Spokane County, Washington, about 1.5 miles southeast of Clayton, Washington; about 483 feet south and 953 feet west of the northeast corner of section 29, T. 29 N., R. 42 E.

Range in Characteristics

Profile

Thickness of ochric epipedon—7 to 9 inches
Thickness of volcanic ash influence—14 to 30 inches
Depth to apparent water table—21 to 37 inches in February through April, more than 21 inches in May through January
Depth to redoximorphic features—20 to 35 inches
Reaction—slightly acid or neutral throughout

Ap horizon
Value—5 or 6 dry, 3 or 4 moist
Chroma—2 or 3 dry or moist
Texture—ashy very fine sandy loam, ashy fine sandy loam
Clay content—5 to 15 percent
Gravel content—0 to 5 percent

Bw1 horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—ashy very fine sandy loam, ashy sandy loam, ashy fine sandy loam, ashy loam
Clay content—5 to 15 percent
Gravel content—0 to 5 percent

Bw2 horizon
Value—5 to 7 dry, 3 to 5 moist
Chroma—2 to 4 dry or moist
Texture—very fine sandy loam, sandy loam, fine sandy loam, loam
Clay content—5 to 15 percent
Redoximorphic features—few to many, fine or medium masses of oxidized iron and few to common iron depletions
Gravel content—0 to 10 percent

C1 horizon
Hue—10YR, 2.5Y
Value—5 to 7 dry, 4 or 5 moist
Chroma—2 to 5 dry or moist
Texture—silt loam, silty clay loam, clay loam
Clay content—10 to 40 percent
Redoximorphic features—few to many masses of oxidized iron and iron depletions
Gravel—0 to 5 percent

C2 and C3 horizons
Hue—10YR, 2.5Y
Value—5 to 7 dry, 4 or 5 moist
Chroma—2 to 5 dry or moist
Texture—fine sandy loam, sandy loam, loam, loamy fine sand, clay loam, silty clay loam
Clay content—5 to 40 percent
Redoximorphic features—few to many masses of oxidized iron and iron depletions
Gravel—0 to 5 percent

Xerolls

Depth class: Very deep
Drainage class: Well drained
Position on landscape: Backslopes of earthflows on hills and basalt plateaus
Parent material: Mass-wasted colluvium derived from mixed sources with an influence of loess and volcanic ash in the upper part
Slope range: 8 to 25 percent
Elevation: 1,660 to 2,400 feet
Average annual precipitation: 18 to 25 inches

Average annual air temperature: 42 to 48 degrees F
Frost-free period: 90 to 130 days

Taxonomic class: Xerolls

Representative Pedon

Unless otherwise indicated, colors in the description are for dry soil.

A1—0 to 4 inches; dark brown (10YR 5/2) silt loam, grayish brown (10YR 3/3) moist; weak medium platy structure parting to moderate very fine angular blocky; friable, slightly hard, slightly sticky and slightly plastic; common very fine and fine roots throughout; many very fine and fine tubular pores; 1 percent fine gravel; slightly acid; clear wavy boundary.

A2—4 to 9 inches; dark brown (10YR 5/3) silt loam, brown (10YR 3/3) moist; moderate medium platy structure; friable, moderately hard, slightly sticky and slightly plastic; common very fine and fine roots throughout; many very fine and fine tubular pores; 1 percent fine gravel; slightly acid; clear wavy boundary.

Bt—9 to 16 inches; dark grayish brown (10YR 6/2) silty clay loam, light brownish gray (10YR 4/2) moist; moderate thick platy structure; firm, moderately hard, moderately sticky and moderately plastic; common very fine and fine and few medium roots throughout; common very fine and fine irregular pores; 1 percent patchy faint clay films along pores; 1 percent gravel and 10 percent cobbles; slightly acid; abrupt wavy boundary.

2C1—16 to 24 inches; light gray (2.5Y 7/2) loamy sand, grayish brown (2.5Y 5/2) moist; massive; very friable, slightly hard, nonsticky and nonplastic; few very fine, fine, and medium roots throughout; many very fine and fine and few medium interstitial pores; 1 percent fine gravel; 1 percent lamellae that are 1/16 to 1/2 inch thick and are 2 to 3 inches apart; slightly acid; clear wavy boundary.

2C2—24 to 60 inches; light gray (2.5Y 7/2) loamy sand, grayish brown (2.5Y 5/2) moist; massive; very friable, slightly hard, nonsticky and nonplastic; few very fine and fine roots throughout; many very fine and fine and few medium interstitial pores; 2 percent medium prominent discontinuous iron masses; 1 percent fine gravel; 10 percent lamellae that are 1/2 to 3/4 inch thick and are 6 to 8 inches apart; slightly acid.

Representative Pedon Location

Map unit in which located: Xerolls silt loam, warm, mass wasted, 8 to 25 percent slopes

Location in survey area: Spokane County, Washington, about 2.5 miles northeast of Mead, Washington; about 570 feet north and 1,225 feet east of the southwest corner of section 30, T. 27 N., R. 44 E.

Range in Characteristics

Profile
Thickness of mollic epipedon—8 to 20 inches
Thickness of argillic horizon—5 to 40 inches
Reaction—slightly acid, neutral

A horizon
Value—4 or 5 dry, 2 or 3 moist
Chroma—1 to 3 dry or moist
Texture—ashy silt loam, silt loam, loam
Clay content—10 to 27 percent
Gravel content—0 to 20 percent

Bt horizons (where present)
Value—4 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—clay loam, silty clay loam, loam, sandy clay loam, silt loam
Clay content—18 to 40 percent
Gravel content—0 to 30 percent
Cobble content—0 to 10 percent
Total rock fragment content—0 to 40 percent

Bw horizon (where present)
Value—4 to 7 dry, 3 to 5 moist
Chroma—3 or 4 dry or moist
Texture—ashy silt loam, loam, sandy loam, silt loam
Clay content—10 to 27 percent
Gravel content—0 to 30 percent
Cobble content—0 to 10 percent
Total rock fragment content—0 to 40 percent

2C horizon (where present)
Value—5 to 7 dry, 4 to 6 moist
Chroma—2 to 5 dry or moist
Texture—coarse sandy loam, loam, loamy sand
Clay content—0 to 12 percent
Gravel content—0 to 85 percent
Cobble content—0 to 30 percent
Lamellae—0 to 10 percent
Total rock fragment content—0 to 85 percent

An R or Cr horizon is below a depth of 40 inches in some pedons.

Formation of the Soils

Within the boundaries of the survey area, 128 soil series and six higher taxonomic units were described and delineated. The appearance and properties of these soils are a result of the interaction of five soil-forming factors—parent material, climate, topography, biological factors, and time. Although each of the factors is discussed separately in this section, they are inseparable with respect to soil formation. For example, a change in the climate influences the ecology that is adapted to a soil type.

Parent Material

Parent material is the unconsolidated organic or mineral material in which a soil forms over time. The soils in the survey area formed in many kinds of parent material. In most areas the material is not homogenous; it commonly consists of a combination of different kinds of material, such as loess and volcanic ash. The soils formed in glaciofluvial and glaciolacustrine deposits, residuum, colluvium, eolian material (loess and volcanic ash), and alluvium.

At different times during the Pleistocene, glaciers from the Cordilleran ice sheet in Canada entered northern Washington and Idaho and advanced south, eventually damming the Columbia and Clark Fork Rivers. Glacial Lakes Columbia and Missoula were eventually created by the ice dams on the rivers, respectively.

The Purcell ice lobe created the dam near Clark Fork, Idaho. It backed up water, creating the enormous Lake Missoula. When the ice dam failed, catastrophic outburst floods deposited glaciofluvial and glaciolacustrine material in much of the survey area. It has been suggested that more than 25 and possibly as many as 89 flood events occurred during the late Pleistocene (Lee, 2009). The torrential forces created by the emptying of the lake scoured the basalt plateau, creating the present-day features of the channeled scablands, large outwash valleys, plains, and terraces. The outwash material consists of thick, unconsolidated, sorted material that was deposited in a high energy/high water velocity environment. It is coarse textured and includes varying amounts of sand, silt, gravel, cobbles, stones, and boulders. The material is derived mainly from granite, gneiss, schist, argillite, quartzite, and local angular to subangular basalt rock fragments in areas southwest of the Spokane River. The Opportunity, Garrison, and Alecanyon series formed in material deposited in this environment. These soils typically have low water- and nutrient-holding capacity in the subsoil and substratum because of the high content of sand and rock fragments. They can be an important source of sand and rock for quarries.

North of the Spokane River, flooding was less extensive and the deposits are associated with lower velocity meltwater. These glaciofluvial deposits consist mainly of silt, sand, and gravel. The Kanisku, Torboy, Stapaloop, Scrabblers, Stien, Bonner, Elokia, and Elmira series formed in outwash material deposited in this environment. Thick glaciolacustrine deposits entrained with calcium carbonates (lime) are on the Peone Prairie as a result of the sediment-rich meltwater that became confined, creating small glacial lakes and areas of slack water. Green Bluff, Cedonia, and Hunters series are representative of soils that formed in this silty sediment. These soils have a high content of silt and some clay and do not have gravel and cobbles.

They have a high capacity to store moisture and nutrients, making them important for agriculture. The surface layer of most of these soils is influenced by varying amounts of loess and volcanic ash.

Loess is wind-deposited, silt-sized material that originated west of the survey area, in the Columbia Basin, from slack water deposits from catastrophic outburst floods of glacial Lake Missoula. Loess is dominant in most of the southeastern part and some of the northwestern part of the area. It occurs as remnant “islands” of the channeled scablands west of Cheney. It is a few inches thick to as much as 75 feet thick (Johnson and others, 1998). The soils that formed in loess have high agricultural value.

Loess also has influenced the upper part of most of the soils throughout the survey area. Most of these soils formed in recent loess deposited during the interglacial and interstadial periods of the late Pleistocene to early Holocene (Busacca and McDonald, 1994). The younger deposits, which are typically at the surface, are less compact and have a distinct dark color because of the higher content of organic matter. The Athena and Naff soils have a thick dark-colored surface layer and an available water capacity and nutrient capacity that is favorable for plants.

The older (palesol) loess typically is beneath the layer of more recent loess. The older loess ranges from more compact to dense, is light brown to reddish brown in color, and has more clay and less organic matter. A perched water table can develop on this layer during the wetter months in spring. The Thatuna, Southwick, and Driscoll soils have a high content of clay in the subsoil, which restricts the downward movement of water. The Santa and Carlinton soils have a dense layer, called a fragipan, that restricts water and roots.

The other major eolian deposit is volcanic ash. The volcanic ash in the survey area, dominantly silt sized, originated west of Spokane from the many active volcanoes in western Washington and western Oregon, including Mount St. Helens, Mount Rainier, and Glacier Peak. The greatest contribution of ash in this area, however, was from the eruption of Mount Mazama about 7,700 years ago, the cone of which is now Crater Lake in southwestern Oregon (USGS, 2002). The Mazama airfall tephra was of sufficient extent and thickness to significantly affect the soils in the area.

Volcanic ash has soil properties and qualities similar to a sponge in that it can store moisture that is available for plant growth. The ash covered the entire area, but its influence depends on the stability of the landscape and the vegetative cover. Many of the soils in the survey area are classified as Andisols or as andic and vitrandic intergrades of other soil orders. Soils on stable landscapes with an abundant coniferous cover have a thick mantle of volcanic ash. These soils are classified as Andisols, and they include the Bouldercreek, Jacot, Boulderjud, and Hysing series. Other ash-influenced soils that have been subject to mixing and reworking have a thin mantle of volcanic ash. These are classified as andic intergrades, and they include the Fan Lake and Scrabblers series. Ash-influenced soils in areas that are subject to a greater amount of erosion and mixing are classified as vitrandic intergrades. A minor amount of ash typically is mixed with the loess in the surface layer. These soils include the Lenz, Spokane, Kramerhill, Glenrose, and Micapeak series.

Soils on the mountains, hills, and plateaus formed in residuum and colluvium derived from igneous extrusive Miocene basalt, igneous intrusive Cretaceous granitic and metamorphic rock, and Precambrian metasedimentary rock (Johnson and others, 1998). This rock is highly fractured, and it is highly weathered in some soils. Most of the soils that formed in this material have a high percentage of rock fragments, ranging from gravel to stones. The soils derived from basalt include the Klickson, Northstar, Rockly, and Speigle series. The Bouldercreek, Boulderjud, Jacot, Hysing, and Lenz series are typical of soils that formed in granitic and high-grade metamorphic rock. The Ardenvoir, Tekoa, and Lotuspoint series are representative of soils derived from metasedimentary rock. The surface layer of all of these soils has varying amounts

of loess and volcanic ash that was deposited during the late Pleistocene and the Holocene (USDA, 2008).

Recent alluvium is the parent material associated with streams and in basins and closed depressions. This material typically consists of sediment from the upland areas that was deposited during periods of overflow. In most areas, the material is derived from a variety of sources and has been transported long distances. The Endoaquolls and Fluvaquents are examples of alluvial soils that are in low-lying areas adjacent to major streams and rivers. These soils can be highly stratified and vary in the content of sand, silt, clay, and rock fragments. They commonly are limited by wetness and flooding, and they support hydrophytic vegetation.

The Caldwell and Cald series formed in local alluvium derived from the surrounding loessal uplands. These soils are in narrow and broad drainageways in areas of loess hills. They typically have a thick, dark-colored surface layer composed of silt- and clay-sized particles. They have a seasonal high water table and a high capacity to store moisture and nutrients for plant growth. In the channeled scablands and in some drainageways, airfall tephra has been eroded from the uplands, reworked by water, and deposited on flood plains and in depressions and drainageways. The soils in these areas are saturated with water and do not have andic properties. The Hoodoo and Cocolalla series formed entirely in volcanic ash. These soils have a high water table, are ponded, and support hydrophytic vegetation.

Some of the soils in the survey area formed in organic material. Examples are the Pywell and Saltese series. These soils formed in highly decomposed organic material derived from hydrophytic plants, and they are on flood plains, in depressions, and adjacent to open water areas and Newman and Liberty Lakes. They commonly are dark in color, are subject to subsidence, and have low strength. Unless drained or protected by water-control structures, these soils have a high water table, may be ponded, and support hydrophytic vegetation. They provide excellent habitat for wildlife.

Climate

Climate is influenced by the Cascade and Rocky Mountain Ranges. The Rocky Mountains shield the area from the more severe winter storms that move southward across Canada, and the Cascade Mountains act as a barrier to the easterly flow of moist air from the Pacific Ocean. The climate generally is continental, but it has maritime characteristics in areas where air from both of these sources reaches Spokane (USDA, 1968). It is subhumid with warm, relatively dry summers and cold, moist winters.

The mean annual precipitation in the survey area is about 15 to 50 inches. The mean annual rainfall near Spokane is about 17 to 20 inches. The amount of precipitation increases from about 15 inches in the southwestern part of the area to about 25 inches near the Idaho border. The highest amount of precipitation, about 50 inches, is received on Mount Spokane.

Precipitation and temperature strongly influence the rate of weathering of rock, the decomposition of minerals, the activity of micro-organisms, the accumulation and decomposition of organic matter, the growth of plants, and the processes of leaching, eluviation, and illuviation. The effects of precipitation on chemical weathering, leaching, eluviation, and illuviation and the subsequent soil horizon development are easily observed in areas of loess.

For example, the Staley and Naff series formed in similar loess but they are in different precipitation zones. As a result, the subsoil of these soils has different characteristics and properties. The Staley soils formed in the 18- to 20-inch precipitation zone. Soil moisture is adequate for the highly soluble calcium in the soil to be transferred downward in the profile and become a precipitate of secondary calcium

carbonate (lime) as the soil warms up and becomes drier. This layer of secondary calcium carbonate accumulation, referred to as a Bk horizon, is at a depth of 10 to 24 inches. In contrast, the Naff soils are in areas where the precipitation is about 22 inches. Calcium is leached from the soil profile, minerals break down into clay-sized particulates, and a clay-enriched argillic horizon, or Bt horizon, is formed.

Climate not only varies on a broad geographic scale, but it also differs within short distances because of slope, aspect, and elevation. Generally, differences in the mean annual precipitation and temperature are associated with changes in elevation. In the survey area, precipitation is highest, more than 45 inches, at the higher elevations and the coldest temperatures, 38 to 44 degrees F, occur in the higher elevation mountains. The Vaywood and Brickel series formed in a cold environment on mountains and ridges at the higher elevations. Summers are cooler and winters are colder in the mountainous areas than in the valleys. In addition, temperatures are cooler on north aspects than on south aspects. The Klickson and Lacy series are geographically associated, but they are on different aspects. The cooler Klickson soils are on north-facing slopes, and the warmer Lacy soils are on south-facing slopes. The mean annual temperature in the Spokane Valley is about 46 to 50 degrees F, which is the warmest in the survey area. The Opportunity soils are on outwash terraces in the Spokane Valley.

Climate also influences the kind and amount of native vegetation on the soils. Soils in the cooler, wetter parts of the survey area dominantly support a dense canopy of conifers. The Bouldercreek, Jacot, Hysing, Nakarna, and Boulderjud series are examples. Soils that formed under trees have a thick layer of litter and a thin dark-colored mineral surface layer. The soils in the warmer, drier parts of the area have a more open tree canopy and more grass in the understory. These soils, such as those of the Glenrose, Opportunity, Speigle, and Southwick series, have a thick, dark-colored surface layer that has a high content of humus and a subsoil from which exchangeable bases have been leached. The thick, dark-colored surface layer is due in part to the annual dieback of grass roots that are incorporated into the upper part of the soils. The soils that support more grass have a higher content of organic matter than do the soils that formed under a dense canopy of coniferous trees.

Topography

Topography, or relief, and the unique landscapes in the survey area are the result of a complex geologic history. The geologic formations are influenced by age and resistance to erosion by wind and water. The hills and mountains are the result of uplift during the Late Cretaceous. The largest geomorphic feature in the area is the eastern edge of the Columbia Plateau. The plateau is comprised of Columbia River Basalt from multiple lava flows originating from vents in eastern Oregon, southeastern Washington, and Idaho during the Miocene (Johnson and others, 1998). The Wanapum and Grande Ronde Basalt and associated members are from the flows in Idaho and are exposed in the survey area. These flows are underlain and interbedded with lacustrine and fluvial sediment, known as the Latah Formation. This formation is the result of a thick accumulation of sediment in local lakes along the eastern margin of the basalt field, where lava flows dammed drainageways and backed up water. The plateau is nearly level to moderately steep, except in areas where it has been incised by rivers and streams to form steep slopes and canyons. It is also the underlying landscape on which thick surficial deposits of loess and outwash formed the terraces, plains, and hills during the Pleistocene to early Holocene. Where outburst floods from glacial Lake Missoula scoured and exposed the basalt plateau, the channeled scablands were formed. The scablands are an extensive area composed of rock outcroppings, cliffs, small channels, drainageways, and closed depressions and large “islands” of loess.

Most of the area is drained by the Spokane River and its two main tributaries, the Little Spokane River and Hangman Creek.

A soil sequence, or catena, is useful in understanding the topographic effects on drainage, runoff, soil formation, and soil horizonation. For example, a typical soil catena of loess hills is composed of landform segments that include north-facing, sloping, linear, and concave backslopes; level and nearly level linear to convex summits and shoulders; and sloping, linear, south-facing backslopes transitioning to level drainageways. The soil series sequence associated with these positions are the Thatuna and Southwick soils on north-facing slopes, the Garfield and Driscoll soils on summits and shoulders, and the Naff and Larkin soils on south-facing slopes. The Thatuna and Southwick soils are moderately well drained, have an E horizon that has been leached of clay, and are subject to episaturation. In contrast, the Naff and Larkin soils on south-facing slopes are well drained, are warmer and drier, and do not have an E horizon. The lower positions of the drainageways are level, have poor drainage, and do not have drainage outlets. The soils have features and horizons that are associated with a fluctuating water table and prolonged saturation. These wetness features are associated with iron transformation and are referred to as redoximorphic concentrations and depletions. They are in the Bgt and Bt horizons in the Caldwell and Cald series.

The soils in depressions have an abundance of hydrophytic plant material and are saturated. Soils such as the Saltese and Pywell series formed in depressions and drainageways, where water accumulates, hydrophytic plant material is abundant, and drainage is very poor, creating anaerobic soil conditions. In this saturated environment, the rate of decomposition of the plant material is slower than the rate of accumulation. As a result, the soils have a very high content of organic matter.

Topographic factors, such as the steepness, shape, and aspect of the slope, affect the distribution of soil moisture and the vegetative cover. An example is the vegetation pattern on the southwestern part of Tekoa Mountain, in the southeast corner of the survey area. The Ardenvoir and McCrosket series on the north-facing slopes are sheltered from solar radiation and prevailing winds, have cooler soil temperatures, and retain more moisture for longer periods. These soils support forest vegetation. In contrast, the Tekoa series on the south-facing slopes are exposed to more direct solar radiation and prevailing winds and thus are warmer and drier. These soils support rangeland vegetation.

Steepness of slope, gravity, and mass movement influence topography and its effect on the processes of soil formation. Mass movement has resulted in deposits in the canyons and on the steeper slopes of the basalt plateaus. In some areas, these landslide deposits are associated with and overlie the Latah Formation. The deposits consist of unconsolidated material that can contain individual blocks of basalt as much as 26 feet in diameter. They commonly are covered or buried with sandy outwash deposits. In areas where this has occurred, the soils and map unit names are identified as “mass wasted.” An example is Marble-Speigle complex, mass wasted, 8 to 30 percent slopes. The Marble soil formed in outwash, and the Speigle soil has properties associated with gravity and the mixing of downslope soil material and landslide deposits.

In some areas, the deposits have been active (Johnson and others, 1998). Xerolls have been subject to repeated episodes of erosion, mixing, and downslope soil movement. The soil properties are so highly variable due to mixing and colluvial processes that they cannot be defined at the series level. The Lakespring series is associated with Xerolls, but these soils formed in complex landslide deposits interbedded with dense laminated sediment of the Latah Formation. The dense layers result in lateral growth of roots and movement of water. During the wetter months in spring, these soils have a perched water table.

Biological Factors

Living organisms can affect soil formation in many ways. Plants, animals, insects, and micro-organisms contribute to the amount of organic matter and plant nutrients in the soil and to changes in porosity and structure. Roots, rodents, and insects penetrate the soil and alter its structure. Soil structure and aggregate stability is also influenced by the amount and transformation of organic matter by soil micro-organisms. These organisms produce organic compounds and fungal mycelia that can bind soil particles together, contributing to overall aggregate stability and soil health. In well aerated, healthy soils, other micro-organisms such as actinomycetes (bacteria) breakdown organic compounds and give the soil an “earthy” smell. Pioneering organisms, such as lichens, contribute to the decomposition of bedrock. Plant roots and soil fauna, such as burrowing insects and worms, increase the porosity of soils. Increased porosity improves infiltration and the ability of soils to store water, cycle nutrients, and exchange water and air, resulting in an optimal medium for biological activity.

The biological factors are strongly influenced by the climate. As precipitation and temperature change, the composition of vegetation and its associated ecological community changes accordingly. Generally, the three major ecological communities in the area are grassland consisting of bunchgrasses, mainly bluebunch wheatgrass and Idaho fescue, that transitions with increasing precipitation to a grass/shrub steppe community comprised of bunchgrasses, shrubs, and forbs; open stands of conifers, mainly of ponderosa pine, with an understory of bunchgrasses and shrubs; and dense coniferous stands with an overstory of western hemlock, western red cedar, grand fir, Rocky Mountain Douglas-fir, western white pine, and western larch and an understory of forbs and shrubs and little, if any, grass. Other ecological communities include semiwet and wet meadows.

Ecological communities and their associated biological factors effect soil properties and formation. Color and thickness of the surface layer are significantly influenced by the plant community. Soils that formed under grassland, such as the Athena series, have a thick, dark-colored surface layer because of the biomass from the fibrous root system. The Stutler series formed under an open stand of conifers with an understory of grasses. These soils have a thin, dark-colored surface layer. In contrast, soils such as the Nakarna and Keeler series have a dense forest canopy with an understory of dominantly forbs and shrubs. Because of the concentration of forest litter, these soils have a thin, lighter colored, transitional A horizon immediately below the layer of duff.

Soils that support wet meadow plant communities composed of water-tolerant grasses, sedges, and forbs have a thick, dark-colored surface layer as a result of the concentration of biomass in the root zone. Examples are the Bridgeson and Cocolalla series. During soil formation, drainage was poor, water was readily available, and native plants grew abundantly. This environment is favorable for micro-organisms to decompose the organic matter and incorporate into it into the soil. Soil bacteria also plays a role in the reduction of iron and manganese in these saturated soils. Decomposition and transformation of organic compounds produce hydrogen sulfide in soils that have poor aeration and an abundance of organic material, such as the Pywell and Saltese series, resulting in a “rotten egg” odor.

Time

The end of the last glacial period in the area marked the time for soil formation to begin, about 11,250 years ago (Baker and others, 1991). Since that time, soil formation has continued as a result of four general soil-forming processes—additions, losses, transformations, and translocations (Simonson, 1959). Soil horizonation is the result of these processes acting over time. Soil morphology consists of the kind, arrangement, and distinctness of soil horizons (Buol and others, 2003). The expression and features

of horizons depend in part on the length of time these processes have acted on the soil and on the stability of the landscape.

Soil horizonation can be used to determine the relative age of soils. Soils with minimal horizonation are relatively young because there has not been sufficient time for the parent material to undergo complex chemical and physical transformations. Older soils have a strongly expressed subsoil. Soils that have moderately expressed horizons are considered to be intermediate in age.

Young soils can occur on landforms such as flood plains and drainageways, where fresh sediment and recent alluvium have accumulated over time or are deposited annually. These unconsolidated deposits are subject to fluvial processes that can result in a repeated pattern of deposition and burial. Fluvaquents and Endoaquolls are examples of soils that do not have a well developed B horizon, have stratified layers, and have minimal horizonation that may consist of an A and C horizon. The dark-colored A horizon in the Endoaquolls is a result of additions of organic matter over a relatively short amount of time. The thin A horizon in the Fluvaquents is underlain by a C horizon that consists of multiple minimally developed layers of different textures.

The Freeman, Reardan, Driscoll, Santa, and Southwick series are on the older, more stable positions of the loess hills. These soils are the oldest and have the most well expressed subsoil. Presence of a clay-enriched subsoil suggests that the landscape and soil-forming processes have been stable since the end of the last glacial period. The subsoil has a high degree of chemical weathering and a significant accumulation of clay (argillic horizon, or Bt horizon), which can take thousands of years to form. There has been sufficient time and stability for the translocation of silicate clay to take place, which is indicated by the abrupt change in texture from the surface layer to the Bt horizon. These soils have a light-colored, strongly leached E horizon above the Bt horizon.

Soils on the mountains and foothills vary in the degree of development and horizonation. Younger soils, such as the Cassyhill and Lotuspoint series, are shallow and moderately deep to hard bedrock. Enough organic matter has accumulated to form a dark-colored surface layer. Minimal chemical alteration of primary minerals has taken place, but the soils do not have a well developed subsoil. In contrast, soils such as the Schumacher, Skalan, and Tekoa series are intermediate in age. They have had sufficient time for translocation of silicate clay minerals, indicated by changes in the color, structure, and texture of the Bt horizon.

The Opportunity and Garrison series on the outwash terraces in the Spokane Valley are intermediate to young in age. There has been enough time for the breakdown and incorporation of organic matter to form a dark-colored surface layer. Chemical alterations in the subsoil have resulted in a moderately developed Bw horizon, which indicates that illuvial accumulations of silicate clay minerals has not taken place.

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Glossary

Many of the terms relating to landforms, geology, and geomorphology are defined in more detail in the “National Soil Survey Handbook” (available in local offices of the Natural Resources Conservation Service or on the Internet).

Abrupt textural change. A soil horizon boundary or thin transitional zone characterized by a considerable increase in clay that occurs at the contact between a surface layer, subsurface layer, subsoil, or substratum.

Aeration, soil. The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.

Aggregate, soil. Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.

Albic horizon. An eluvial horizon that is at least 1 centimeter thick or more. The color of the soil material is largely determined by the color of primary sand and silt particles rather than by the color of their coatings.

Alkali (sodic) soil. A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Alluvium. Unconsolidated material, such as gravel, sand, silt, clay, and various mixtures of these, deposited on land by running water.

Alpha,alpha-dipyridyl. A compound that when dissolved in ammonium acetate is used to detect the presence of reduced iron (Fe II) in the soil. A positive reaction implies reducing conditions and the likely presence of redoximorphic features.

Andic soil properties. A collection of physical and chemical properties that define the criteria for the Andisol order.

Aquic conditions. Current soil wetness characterized by saturation, reduction, and redoximorphic features.

Argillic horizon. A subsoil horizon characterized by an accumulation of illuvial clay.

Ash (volcanic). Unconsolidated, pyroclastic material less than 2 millimeters in all dimensions; commonly called volcanic ash.

Ashy (family particle-size class). A substitute class term used for the family particle-size in mineral soils.

Ashy (textural modifier; for example, ashy sandy loam). A term used to describe material in which the fine-earth fraction has 30 percent or more particles that are 0.02 to 2.0 millimeters in diameter. Of this, 5 percent or more is volcanic glass and the ammonium oxalate extractable aluminum plus ½ the ammonium oxalate extractable iron times 60 added to the percentage of volcanic glass are equal to or more than 30.

Aspect. The direction toward which a slope faces. Also called slope aspect.

Aspect, north. All compass directions with a northerly aspect, including west-northwest, northwest, north-northwest, north, north-northeast, northeast, and east-northeast. North aspects have less solar radiation than south aspects and consequently are cooler and more moist.

Aspect, south. All compass directions with a southerly aspect, including east-southeast, southeast, south-southeast, south, south-southwest, southwest, and west-southwest. South aspects have more solar radiation than north aspects and consequently are warmer and more droughty.

Association, soil. A group of soils or miscellaneous areas geographically associated in a characteristic repeating pattern and defined and delineated as a single map unit.

Available water capacity (available moisture capacity). The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low	0 to 3
Low	3 to 6
Moderate	6 to 9
High	9 to 12
Very high	more than 12

Backslope. The position that forms the steepest and generally linear, middle portion of a hillslope. In profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.

Basal area. The area of a cross section of a tree, generally referring to the section at breast height and measured outside the bark. It is a measure of stand density, commonly expressed in square feet.

Basalt. A fine-grained, dark-colored extrusive igneous rock composed primarily of calcic plagioclase and pyroxene, with or without olivine.

Base saturation. The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.

Base slope (geomorphology). A geomorphic component of hills consisting of the concave to linear (perpendicular to the contour) slope that, regardless of the lateral shape, forms an apron or wedge at the bottom of a hillside dominated by colluvium and slope-wash sediments (for example, slope alluvium).

Basin. A low area in the earth's crust, of tectonic origin, in which sediment has accumulated.

Bedding system. A drainage system made by plowing, grading, or otherwise shaping the surface of a flat field. It consists of a series of low ridges separated by shallow, parallel dead furrows.

Bedrock. The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.

Bedrock-controlled topography. A landscape where the configuration and relief of the landforms are determined or strongly influenced by the underlying bedrock.

Bottom land. An informal term loosely applied to various portions of a flood plain.

Boulders. Rock fragments larger than 2 feet (60 centimeters) in diameter.

Breaks. A landscape or tract of steep, rough or broken land dissected by ravines and gullies and marking a sudden change in topography.

Breast height. An average height of 4.5 feet above the ground surface; the point on a tree where diameter measurements are ordinarily taken.

Brush management. Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.

Bulk density. The mass of soil per unit bulk volume. Moist bulk density refers to the oven-dry weight of a given volume of soil with moisture content at or near field moisture capacity.

Calcareous soil. A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.

Calcic horizon. An illuvial horizon in which secondary calcium carbonate or other carbonates have accumulated to a significant extent (Soil Survey Staff, 1999).

Calcium carbonate equivalent. The quantity of carbonates (CO3) in the soil, expressed as CaCO3 and as a percentage by weight of the fraction less than 2 millimeters in size.

Cambic horizon. A mineral soil horizon that is loamy very fine sand or finer textured and has soil structure rather than rock structure. The cambic horizon contains some weatherable minerals, and it is characterized by alterations or removals as indicated by redoximorphic features or by stronger chroma or redder hue than that of the underlying horizons.

Canopy. The leafy crown of trees or shrubs. (See Crown.)

Canyon. A long, deep, narrow valley with high, precipitous walls in an area of high local relief.

Canyonland (general landscape). A deeply dissected landscape composed dominantly of relatively narrow flood plains or valley floors, commonly with considerable outcroppings of bedrock on steep slopes, ledges, or cliffs and with broad summits or interfluves.

Capillary water. Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.

Carbonates. Chemical compounds containing the carbonate ion CO3 in combination with bases such as calcium, magnesium, potassium, and sodium.

Catena. A sequence, or “chain,” of soils on a landscape that formed in similar kinds of parent material and under similar climatic conditions but that have different characteristics as a result of differences in relief and drainage.

Cation. An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.

Cation-exchange capacity. The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.

Channeled scablands. A geographic area of unique landscape features, shallow soils, and sparse vegetation. The area has elongated bedrock-controlled erosional features as a result of flooding by glacial meltwater. Many tens of feet of loess were removed by the floodwater and many areas were scoured to bedrock, leaving behind a unique pattern of channels, pools, basins, and other features.

Channery soil material. Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.

Chemical treatment. Control of unwanted vegetation through the use of chemicals.

Chiseling. Tillage with an implement having one or more soil-penetrating points that shatter or loosen hard, compacted layers to a depth below normal plow depth.

Clay. As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.

Clay depletions. See Redoximorphic features.

Clay film. A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.

Claypan. A dense, compact subsoil layer that contains much more clay than the overlying materials, from which it is separated by a sharply defined boundary. The layer restricts the downward movement of water through the soil. A claypan is commonly hard when dry and plastic and sticky when wet.

Climax plant community. The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.

Coarse textured soil. Sand or loamy sand.

Coarse-loamy. A loamy particle-size class that is 15 percent or more fine sand or coarser, including fragments as much as 3 inches in diameter, and is less than 18 percent clay in the fine-earth fraction.

Coarse-silty. A loamy particle-size class that is less than 15 percent fine sand or coarser, including fragments as much as 3 inches in diameter, and is less than 18 percent clay in the fine-earth fraction.

Cobble (or cobblestone). A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.

Cobbly soil material. Material that has 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material has 35 to 60 percent of these rock fragments, and extremely cobbly soil material has more than 60 percent.

COLE (coefficient of linear extensibility). See Linear extensibility.

Colluvium. Unconsolidated, unsorted earth material being transported or deposited on side slopes and/or at the base of slopes by mass movement (for example, direct gravitational action) and by local, unconcentrated runoff.

Compaction. The increase in soil bulk density as a result of applied loads or pressure. Compaction reduces porosity, water infiltration, and root penetration.

Complex slope. Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.

Complex, soil. A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.

Concretions. See Redoximorphic features.

Coniferous. Pertaining to plants of the *Coniferales* order of the *Gymnospermae* subdivision. Coniferous plants have cone fruit and are commonly, but not always, evergreen. Examples include ponderosa pine, Douglas-fir, and western larch.

Conservation cropping system. Growing crops in combination with needed cultural and management practices. In a good conservation cropping system, the soil-improving crops and practices more than offset the effects of the soil-depleting crops and practices. Cropping systems are needed on all tilled soils. Soil-improving practices in a conservation cropping system include the use of rotations that contain grasses and legumes and the return of crop residue to the soil. Other practices include the use of green manure crops of grasses and legumes, proper tillage, adequate fertilization, and weed and pest control.

Conservation tillage. A tillage system that does not invert the soil and that leaves a protective amount of crop residue on the surface throughout the year.

Consistence, soil. Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the “Soil Survey Manual.”

Consociation. A kind of soil map unit that is dominantly a single soil or miscellaneous area and similar soils.

Continental glaciation. Refers to the glaciers that covered much of North America during the Ice Age, as opposed to contemporary glaciers associated with mountains.

Control section. The part of the soil on which classification is based. The thickness varies among different kinds of soil, but for many it is that part of the soil profile between depths of 10 inches and 40 or 80 inches.

Cordilleran ice sheet. The glacial ice sheet that covered much of the northern half of North America, from the eastern face of the Rocky Mountains to the Pacific Ocean, during the Pleistocene.

Corrosion (soil survey interpretations). Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.

Cover crop. A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.

Creep. Gradual downslope movement of soil material. It is caused by gravity but is facilitated by saturation of the material with water and by alternate freezing and thawing.

Crop residue management. Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion.

Cropping system. Growing crops according to a planned system of rotation and management practices.

Cross-slope farming. Deliberately conducting farming operations on sloping farmland in such a way that tillage is across the general slope.

Crown. The upper part of a tree or shrub, including the living branches and their foliage.

Cryic. A soil temperature regime in which the mean annual soil temperature at a depth of 20 inches ranges from 33 to 46 degrees F. The mean summer soil temperature is less than 47 degrees for soils that have an O horizon, and it is less than 59 degrees for soils that do not have an O horizon.

Culmination of the mean annual increment (CMAI). The average annual increase per acre in the volume of a stand. Computed by dividing the total volume of the stand by its age. As the stand increases in age, the mean annual increment continues to increase until mortality begins to reduce the rate of increase. The point where the stand reaches its maximum annual rate of growth is called the culmination of the mean annual increment.

Cutbanks cave (in tables). The walls of excavations tend to cave in or slough.

Decreasers. The most heavily grazed climax range plants. Because they are the most palatable, they are the first to be destroyed by overgrazing.

Deferred grazing. Postponing grazing or resting grazing land for a prescribed period.

Dense layer (in tables). A very firm, massive layer that has a bulk density of more than 1.8 grams per cubic centimeter. Such a layer affects the ease of digging and can affect filling and compacting.

Densic contact. A boundary between soil and coherent underlying material that restricts the penetration of roots, is not cemented, and is typically referred to as dense glacial till and as a Cd horizon.

Depth, soil. Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep; deep soils, 40 to 60 inches; moderately deep, 20 to 40 inches; shallow, 10 to 20 inches; and very shallow, less than 10 inches.

Depression. Any relatively sunken part of the earth's surface, especially a low-lying area surrounded by higher ground, that has few, if any, surface drainage outlets.

Diagnostic horizons. Combinations of specific soil characteristics that are indicative of certain classes of soils. Those that occur at the soil surface are called epipedons, and those that occur below the soil surface are called diagnostic subsurface horizons.

Dissimilar soils. Soils that behave differently and require different management than the named soils and similar soils in a map unit.

Drainage class (natural). Refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—*excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained,* and *very poorly drained*. These classes are defined in the "Soil Survey Manual."

Drainage, surface. Runoff, or surface flow of water, from an area.

Drainageway. A general term for a course or channel along which water moves in draining an area. A term restricted to relatively small, linear depressions that at some time move concentrated water and either do not have a defined channel or have only a small defined channel.

Draw. A small stream valley that generally is shallower and more open than a ravine or gulch and that has a broader bottom. The present stream channel may appear inadequate to have cut the drainageway that it occupies.

Drift. A general term applied to all mineral material (clay, silt, sand, gravel, and boulders) transported by a glacier and deposited directly by or from the ice or transported by running water emanating from a glacier. Drift includes unstratified material (till) that forms moraines and stratified deposits that form outwash plains, eskers, kames, varves, and glaciofluvial sediments. The term is generally applied to Pleistocene glacial deposits in areas that no longer contain glaciers.

Duff. A generally firm organic layer on the surface of mineral soils. It consists of fallen plant material that is in the process of decomposition and includes everything from the litter on the surface to underlying pure humus.

Dune. A low mound, ridge, bank, or hill of loose, windblown granular material (generally sand), either barren and capable of movement from place to place or covered and stabilized with vegetation but retaining its characteristic shape.

Durinodes. Nodules that are weakly cemented to indurated with silica oxide (SiO2).

Duripan. A subsurface soil horizon that is cemented by illuvial silica, commonly opal or microcrystalline forms of silica, to the degree that less than 50 percent of the volume of air-dry fragments will slake in water or hydrochloric acid.

Ecological site. An area where climate, soil, and relief are sufficiently uniform to produce a distinct natural plant community. An ecological site is the product of all the environmental factors responsible for its development. It is typified by an association of species that differ from those on other ecological sites in kind and/or proportion of species or in total production.

Effervescence. The gaseous response exhibited as bubbles on the soil ped when drops of dilute (1:10) hydrochloric acid (HCl) are applied. This response typically indicates the presence of calcium carbonates (CaCO3).

Eluviation. The movement of material in true solution or colloidal suspension from one place to another within the soil. Soil horizons that have lost material through eluviation are eluvial; those that have received material are illuvial.

Endosaturation. A type of saturation of the soil in which all horizons between the upper boundary of saturation and a depth of 2 meters are saturated.

Eolian deposit. Sand-, silt-, or clay-sized clastic material transported and deposited primarily by wind, commonly in the form of a dune or a sheet of sand or loess.

Episaturation. A type of saturation indicating a perched water table in a soil in which saturated layers are underlain by one or more unsaturated layers within 2 meters of the surface.

Erratic. Refers to a rock fragment transported by glacial ice or floating ice that is different from the bedrock in the area in which it is deposited.

Erosion. The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.

Erosion (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.

Erosion (accelerated). Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.

Erosion surface. A land surface shaped by the action of erosion, especially by running water.

Escarpment. A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Most commonly applied to cliffs produced by differential erosion. Synonym: scarp.

Extrusive rock. Igneous rock derived from deep-seated molten matter (magma) deposited and cooled on the earth's surface.

Fallow. Cropland left idle in order to restore productivity through accumulation of moisture. Summer fallow is common in regions of limited rainfall where cereal grain is grown. The soil is tilled for at least one growing season for weed control and decomposition of plant residue.

Fertility, soil. The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.

Fibric soil material (peat). The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.

Field moisture capacity. The moisture content of a soil, expressed as a percentage of the ovendry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called *normal field capacity, normal moisture capacity,* or *capillary capacity*.

Fine textured soil. Sandy clay, silty clay, or clay.

Fine-loamy. A loamy particle-size class that is 15 percent or more fine sand or coarser, including fragments as much as 3 inches in diameter, and is 18 to 34 percent clay in the fine-earth fraction.

Fine-silty. A loamy particle-size class that is less than 15 percent fine sand or coarser, including fragments as much as 3 inches in diameter, and is 18 to 34 percent clay in the fine-earth fraction.

Flaggy soil material. Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.

Flagstone. A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.

Flood plain. The nearly level plain that borders a stream and is subject to flooding unless protected artificially.

Flood-plain step. An essentially flat, terrace-like alluvial surface within a valley that is frequently covered by floodwater from the present stream; any approximately

horizontal surface still actively modified by fluvial scour and/or deposition. May occur individually or as a series of steps.

Fluvial. Of or pertaining to rivers or streams; produced by stream or river action.

Foliated. Refers to metamorphic rock that exhibits parallel structure or layering.

Foothills. A region of steeply sloping hills that fringes a mountain range or high-plateau escarpment. The hills have relief of as much as 1,000 feet (300 meters).

Footslope. The concave surface at the base of a hillslope. A footslope is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).

Forb. Any herbaceous plant not a grass or a sedge.

Forest cover. All trees and other woody plants (underbrush) covering the ground in a forest.

Forest type. A stand of trees similar in composition and development because of given physical and biological factors by which it may be differentiated from other stands.

Forestland. Land on which the historic vegetation was dominated by a 25 percent overstory canopy cover of trees, as determined by crown perimeter-vertical projection. A tree is defined as a woody-stemmed plant that can grow to 4 meters (about 13 feet) in height at maturity.

Fragipan. A loamy, brittle subsurface horizon low in porosity and content of organic matter and low or moderate in clay but high in silt or very fine sand. A fragipan appears cemented and restricts roots. When dry, it is hard or very hard and has a higher bulk density than the horizon or horizons above. When moist, it tends to rupture suddenly under pressure rather than to deform slowly.

Fragmental. A particle-size class used to classify mineral soils that have less than 10 percent by volume fine-earth soil material.

Frigid. A soil temperature regime in which the mean annual soil temperature at a depth of 20 inches ranges from 33 to 46 degrees F. The mean summer soil temperature is more than 47 degrees for soils that have an O horizon. The difference between the mean winter soil temperature and the mean summer soil temperature is more than 9 degrees F.

Genesis, soil. The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.

Geomorphic surface. A mappable area of the earth's surface that has a common history; the area is of similar age and is formed by a set of processes during an episode of landscape evolution.

Glaciofluvial deposits. Material moved by glaciers and subsequently sorted and deposited by streams flowing from the melting ice. The deposits are stratified and occur in the form of outwash plains, valley trains, deltas, kames, eskers, and kame terraces.

Glaciolacustrine deposits. Material ranging from fine clay to sand derived from glaciers and deposited in glacial lakes mainly by glacial meltwater. Many deposits are bedded or laminated.

Gleyed soil. Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.

Granite. A coarse-grained igneous rock consisting mainly of quartz and feldspar, with more orthoclase than plagioclase. (See Granodiorite.)

Granitic. Term generally applied to granite or granitelike rock. It is used when referring to granite, granodiorite, quartz monzonite, quartz diorite, diorite, and granitic gneiss.

Granitic gneiss. A crystalline, banded metamorphic rock of granitic composition.

Granodiorite. A coarse-grained igneous rock consisting mainly of quartz and feldspar, with more plagioclase than orthoclase. (See Granite.)

Grassed waterway. A natural or constructed waterway, typically broad and shallow, seeded to grass as protection against erosion. Conducts surface water away from cropland.

Gravel. Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.

Gravelly soil material. Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.

Grazing system, planned. A system for managing rangeland in which three or more fields are alternately grazed and then rested in a planned sequence for a period of years.

Green manure crop (agronomy). A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.

Ground water. Water filling all the unblocked pores of the material below the water table.

Grus. The fundamental products of *in situ* granular disintegration of granite and granitic rock, dominated by intercrystal disintegration.

Gully. A small channel with steep sides caused by erosion and cut in unconsolidated materials by concentrated but intermittent flow of water. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.

Gypsum. A mineral consisting of hydrous calcium sulfate.

Habitat type. The collective area occupied by a single plant association. It is defined and described on the basis of the vegetation and its associated environment.

Hard bedrock. Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.

Hard to reclaim (in tables). Reclamation is difficult after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult.

Hardpan. A hardened or cemented soil horizon, or layer. The soil material is sandy, loamy, or clayey and is cemented by iron oxide, silica, calcium carbonate, or other substance.

Head slope (geomorphology). A geomorphic component of hills consisting of a laterally concave area of a hillside, especially at the head of a drainageway. The overland waterflow is converging.

Hemic soil material (mucky peat). Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.

High-residue crops. Such crops as small grain and corn used for grain. If properly managed, residue from these crops can be used to control erosion until the next crop in the rotation is established. These crops return large amounts of organic matter to the soil.

Hill. A generic term for an elevated area of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline. Slopes are generally more than 15 percent. The distinction between a hill and a mountain is arbitrary and may depend on local usage.

Hillslope. A generic term for the steeper part of a hill between its summit and the drainage line, valley flat, or depression floor at the base of a hill.

Histic epipedon. A thin, organic soil horizon that is saturated with water at some time during the year unless it is artificially drained. This horizon is at or near the surface of a mineral soil. It contains more than 12 percent organic carbon.

Historic climax plant community. The plant community that was best adapted to the unique combination of factors associated with the ecological site. It was in a

natural dynamic equilibrium with the historic biotic, abiotic, and climatic factors on its ecological site in North America at the time of European immigration and settlement.

Holocene. The epoch of the Quaternary period of geologic time, extending from the end of the Pleistocene (about 10,000 to 12,000 years ago) to the present.

Horizon, soil. A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the "Soil Survey Manual." The major horizons of mineral soil are as follows:

O horizon.—An organic layer of fresh and decaying plant residue.

A horizon.—The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.

E horizon.—The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.

B horizon.—The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.

C horizon.—The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.

Cd horizon.—Noncemented, root-restricting layer such as dense basal till.

Cr horizon.—Consolidated bedrock beneath the soil that has an extremely weakly cemented to moderately cemented rupture-resistance class.

R horizon.—Consolidated bedrock beneath the soil that has a strongly cemented or stronger rupture-resistance class.

Humus. The well decomposed, more or less stable part of the organic matter in mineral soils.

Hydrologic soil groups. Refers to soils grouped according to their runoff potential. The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties include depth to a seasonal high water table, the infiltration rate, and depth to a layer that significantly restricts the downward movement of water. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

Igneous rock. Rock that was formed by cooling and solidification of magma and that has not been changed appreciably by weathering since its formation. Major varieties include plutonic and volcanic rock (e.g., andesite, basalt, and granite).

Illuviation. The movement of soil material from one horizon to another in the soil profile. Generally, material is removed from an upper horizon and deposited in a lower horizon.

Impervious soil. A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.

Increasers. Species in the climax vegetation that increase in amount as the more desirable plants are reduced by close grazing. Increasers commonly are the shorter plants and the less palatable to livestock.

Indurated. Refers to having a hard, brittle consistency as a result of particles being held together by cementing substances such as silica, calcium carbonate, and iron. An indurated layer can be broken by a sharp blow of a hammer.

Infiltration. The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.

Infiltration capacity. The maximum rate at which water can infiltrate into a soil under a given set of conditions.

Infiltration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

Intake rate. The average rate of water entering the soil under irrigation. Most soils have a fast initial rate; the rate decreases with application time. Therefore, intake rate for design purposes is not a constant but is a variable depending on the net irrigation application. The rate of water intake, in inches per hour, is expressed as follows:

Less than 0.2	very low
0.2 to 0.4	low
0.4 to 0.75	moderately low
0.75 to 1.25	moderate
1.25 to 1.75	moderately high
1.75 to 2.5	high
More than 2.5	very high

Interfluve. A landform composed of the relatively undissected upland or ridge between two adjacent valleys containing streams flowing in the same general direction. An elevated area between two drainageways that sheds water to those drainageways.

Interfluve (geomorphology). A geomorphic component of hills consisting of the uppermost, comparatively level or gently sloping area of a hill; shoulders of backwearing hillslopes can narrow the upland or can merge, resulting in a strongly convex shape.

Intrusive rock. Igneous rock derived from molten matter (magmas) that invaded pre-existing rock and cooled below the surface of the earth.

Invaders. On range, plants that encroach into an area and grow after the climax vegetation has been reduced by grazing. Generally, plants invade following disturbance of the surface.

Iron accumulations. See Redoximorphic features.

Iron depletions. See Redoximorphic features.

Irrigation. Application of water to soils to assist in production of crops. Methods of irrigation are:

Basin.—Water is applied rapidly to nearly level plains surrounded by levees or dikes.

Border.—Water is applied at the upper end of a strip in which the lateral flow of water is controlled by small earth ridges called border dikes, or borders.

Controlled flooding.—Water is released at intervals from closely spaced field ditches and distributed uniformly over the field.

Corrugation.—Water is applied to small, closely spaced furrows or ditches in fields of close-growing crops or in orchards so that it flows in only one direction.

Drip (or trickle).—Water is applied slowly and under low pressure to the surface of the soil or into the soil through such applicators as emitters, porous tubing, or perforated pipe.

Furrow.—Water is applied in small ditches made by cultivation implements. Furrows are used for tree and row crops.

Sprinkler.—Water is sprayed over the soil surface through pipes or nozzles from a pressure system.

Subirrigation.—Water is applied in open ditches or tile lines until the water table is raised enough to wet the soil.

Wild flooding.—Water, released at high points, is allowed to flow onto an area without controlled distribution.

Krotovinas. Irregular tubular streaks within one layer of soil material transported from another layer. They are caused by the filling of tunnels made by burrowing animals.

Ksat. See Saturated hydraulic conductivity.

Lacustrine deposit. Material deposited in lake water and exposed when the water level is lowered or the elevation of the land is raised.

Lake plain. A nearly level surface marking the floor of an extinct lake filled by well sorted, generally fine textured, stratified deposits, commonly containing varves.

Lake terrace. A narrow shelf, partly cut and partly built, produced along a lakeshore in front of a scarp line of low cliffs and later exposed when the water level falls.

Lamella. A thin, discontinuous or continuous, generally horizontal layer of fine material (especially clay and iron oxides) that has been pedogenically concentrated (illuviated) within a coarser (e.g., sandy), eluviated layer.

Landform. Any physical, recognizable form or feature on the earth's surface that has a characteristic shape and range in composition and is produced by natural causes; it can span a wide range in size. Landforms provide an empirical description of similar portions of the earth's surface.

Landscape (soils). An assemblage, group, or family of spatially related, natural landforms over a relatively large area; the land surface which the eye can comprehend in a single view.

Landslide. A general, encompassing term for most types of mass movement landforms and processes involving the downslope transport and outward deposition of soil and rock materials caused by gravitational forces; the movement may or may not involve saturated materials. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.

Large stones (in tables). Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.

Leaching. The removal of soluble material from soil or other material by percolating water.

Leeward. Being in or facing the direction toward which the wind is blowing.

Limestone. Sedimentary rock consisting mainly of calcium carbonate (CaCO3).

Linear extensibility. Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the clod at $^1/_3$- or $^1/_{10}$-bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.

Liquid limit. The moisture content at which the soil passes from a plastic to a liquid state.

Lithic contact. A boundary between soil and coherent underlying material, typically bedrock. The bedrock has a cementation class of strongly cemented or stronger and is typically referred to as an R horizon.

Lithologic discontinuity. A significant change in particle-size distribution or mineralogy that indicates a difference in the material from which the soil horizons have formed.

Loam. Soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.

Loamy-skeletal. A particle-size class in which rock fragments 2 millimeters in diameter or larger make up 35 percent or more by volume. The fine-earth fraction is loamy.

Loess. Material transported and deposited by wind and consisting dominantly of silt-sized particles.

Low strength. The soil is not strong enough to support loads.

Low-residue crops. Such crops as corn used for silage, peas, beans, and potatoes. Residue from these crops is not adequate to control erosion until the next crop in the rotation is established. These crops return little organic matter to the soil.

Major land resource area (MLRA). A broad geographic land area characterized by a particular pattern of soils, geology, climate, water resources, and land use. An area is typically continuous, but small separate areas can occur.

Mass movement. A generic term for the dislodgment and downslope transport of soil and rock material as a unit under direct gravitational stress.

Masses. See Redoximorphic features.

Mechanical treatment. Use of mechanical equipment for seeding, brush management, and other management practices.

Medial (family particle-size class). A substitute class term used for the family particle-size class in mineral soils.

Medial (textural modifier, such as medial loam). A USDA textural modifier used in conjunction with a USDA mineral soil texture to indicate unique physical and chemical properties. The properties are defined in Soil Taxonomy and are typically low bulk density, high content of iron and aluminum, and high retention of phosphate.

Medium textured soil. Very fine sandy loam, loam, silt loam, or silt.

Mesic. A soil temperature regime in which the mean annual temperature at a depth of 20 inches ranges from 47 to 58 degrees F. The difference between the mean winter soil temperature and the mean summer soil temperature is more than 9 degrees F.

Metamorphic rock. Rock of any origin altered in mineralogical composition, chemical composition, or structure by heat, pressure, and movement at depth in the earth's crust. Nearly all such rocks are crystalline.

Metasedimentary rock. A sedimentary rock that has been subject to metamorphic processes. The degree of metamorphic alteration is not implied by the term.

Microclimate. The climate of a small distinct area, as of a forest or city, or a confined space, as of a building or greenhouse.

Mine spoil. An accumulation of displaced earthy material, rock, or other waste material removed during mining or excavation. Also called earthy fill.

Mineral soil. Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.

Minimum tillage. Only the tillage essential to crop production and prevention of soil damage.

Miscellaneous area. A kind of map unit component that has little or no natural soil and supports little or no vegetation.

Moderately coarse textured soil. Coarse sandy loam, sandy loam, or fine sandy loam.

Moderately fine textured soil. Clay loam, sandy clay loam, or silty clay loam.

Moisture control section. The layer within a soil profile used to determine the soil moisture regime. The upper boundary is the depth to which a dry soil is moistened by 1 inch of water in 24 hours. The lower boundary is the depth to which a dry soil is moistened by 3 inches of water in 48 hours.

Mollic epipedon. A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

Moraine. In terms of glacial geology, a mound, ridge, or other topographically distinct accumulation of unsorted, unstratified drift, predominantly till, deposited primarily by the direct action of glacial ice in a variety of landforms. Also, a general term for a landform composed mainly of till (except for kame moraines, which are composed mainly of stratified outwash) that has been deposited by a glacier. Some types of moraines are disintegration, end, ground, kame, lateral, recessional, and terminal.

Morphology, soil. The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.

Mottling, soil. Irregular spots of different colors that vary in number and size. Descriptive terms are as follows: abundance—*few, common,* and *many;* size—*fine, medium,* and *coarse;* and contrast—*faint, distinct,* and *prominent*. The size measurements are of the diameter along the greatest dimension. *Fine* indicates less than 5 millimeters (about 0.2 inch); *medium,* from 5 to 15 millimeters (about 0.2 to 0.6 inch); and *coarse,* more than 15 millimeters (about 0.6 inch).

Mountain. A generic term for an elevated area of the land surface, rising more than 1,000 feet (300 meters) above surrounding lowlands, commonly of restricted summit area (relative to a plateau) and generally having steep sides. A mountain can occur as a single, isolated mass or in a group forming a chain or range. Mountains are formed primarily by tectonic activity and/or volcanic action but can also be formed by differential erosion.

Mountain valleys. Any small, externally drained depression floored with either till or alluvium, that occurs on a mountain or within mountains. (See intermontane basins.)

Muck. Dark, finely divided, well decomposed organic soil material. (See Sapric soil material.)

Mucky peat. A USDA texture associated with organic soils that meet the degree of organic matter decomposition associated with hemic soil material.

Munsell notation. A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

Neutral soil. A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.)

Nodules. See Redoximorphic features.

Nose slope (geomorphology). A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is predominantly divergent. Nose slopes consist dominantly of colluvium and slope-wash sediments (for example, slope alluvium).

Nutrient, plant. Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.

Ochric epipedon. A surface horizon of mineral soil that is too light in color, too high in chroma, too low in organic carbon, or too thin to be a mollic, umbric, or histic epipedon.

Organic matter. Plant and animal residue in the soil in various stages of decomposition. The content of organic matter in the surface layer is described as follows:

Very low	less than 0.5 percent
Low	0.5 to 1.0 percent
Moderately low	1.0 to 2.0 percent
Moderate	2.0 to 4.0 percent
High	4.0 to 8.0 percent
Very high	more than 8.0 percent

Orogenic. Of or pertaining to the process of mountain formation.

Outwash. Stratified and sorted sediment (mainly sand and gravel) removed or "washed out" from a glacier by meltwater streams and deposited in front of or beyond the end moraine or the margin of a glacier. The coarser material is deposited nearer to the ice.

Outwash fan. An accumulation of outwash material deposited by meltwater streams in front of the end or recessional moraine of a glacier.

Outwash plain. An extensive lowland area of coarse textured glaciofluvial material. An outwash plain is commonly smooth; where pitted, it generally is low in relief.

Outwash terrace. A valley train deposit extending along a valley downstream from an outwash plain or terminal moraine; a flat-topped bank of outwash with an abrupt outer face.

Overland flow. Water that runs across the land after rainfall, either before it enters a watercourse or after it leaves a watercourse as floodwater or after it rises to the surface naturally from underground.

Overstory. The trees in a forest stand that form the upper crown cover. (See Understory.)

Oxidation. Any chemical reaction that removes electrons from a molecule or atom.

Paleosol. A soil that formed on a landscape in the past that has distinctive morphological features resulting from a soil-forming environment that no longer exists.

Pan. A compact, dense layer in a soil that impedes the movement of water and the growth of roots. For example, *hardpan, fragipan, claypan, duripan, placic horizon, plowpan,* and *traffic pan*.

Paralithic contact. A boundary between soil and coherent underlying material that can be dug with difficulty with a spade. It is referred to as weathered bedrock, has a cementation class of moderately cemented or weaker, and is typically referred to as a Cr horizon.

Pararock fragments. Fragments of rock that are 2 millimeters in diameter or more (e.g., paragravel, paracobble, or parastone). Pararock fragments have a moderately cemented to extremely weakly cemented rupture-resistance class.

Parent material. The unconsolidated organic and mineral material in which soil forms.

Peat. Unconsolidated material, largely undecomposed organic matter, that has accumulated under excess moisture. (See Fibric soil material.)

Ped. An individual natural soil aggregate, such as a granule, a prism, or a block.

Pedogenesis. The processes of formation and development of soils.

Pedologic. Of or pertaining to the processes of soil formation.

Pedon. The smallest volume that can be called "a soil." A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.

Percolation. The movement of water through the soil.

Permeability. The quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality. In soil physics, the rate is referred to as "saturated hydraulic conductivity," which is defined in the "Soil Survey Manual" and in this

glossary. Terms describing permeability, measured in inches per hour, are as follows:

Impermeable	less than 0.0015 inch
Very slow	0.0015 to 0.06 inch
Slow	0.06 to 0.2 inch
Moderately slow	0.2 to 0.6 inch
Moderate	0.6 inch to 2.0 inches
Moderately rapid	2.0 to 6.0 inches
Rapid	6.0 to 20 inches
Very rapid	more than 20 inches

See “Saturated hydraulic conductivity” for conversions of inches per hour to micrometers per second.

pH value. A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)

Phase, soil. A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

Piping (in tables). Formation of subsurface tunnels or pipelike cavities by water moving through the soil.

Pitting (in tables). Pits caused by melting around ice. They form on the soil after plant cover is removed.

Plant association. A kind of climax plant community consisting of stands with essentially the same dominant species in corresponding layers.

Plant community. An assemblage of plants living together, reflecting no particular ecological status; a vegetative complex unique in its combination of plants.

Plastic limit. The moisture content at which a soil changes from semisolid to plastic.

Plasticity index. The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.

Plateau (geomorphology). A comparatively flat area of great extent and elevation; specifically, an extensive land region that is considerably elevated (more than 100 meters) above the adjacent lower lying terrain, is commonly limited on at least one side by an abrupt descent, and has a flat or nearly level surface. A comparatively large part of a plateau surface is near summit level.

Pleistocene. The epoch of geologic time from approximately 10,000 to 2 million years ago. The earlier of the two epochs comprising the Quaternary period. Also called the Glacial epoch.

Plowpan. A compacted layer formed in the soil directly below the plowed layer.

Pole stage. A forest successional stage in which the vegetation of a stand is dominantly a moderately dense to very dense overstory of trees that have minimal vertical crown depth. The trees generally range from about 5 to 9 inches in diameter at breast height, and the canopy cover normally exceeds 35 percent.

Ponding. Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.

Poorly graded. Refers to a coarse grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.

Pore linings. See Redoximorphic features.

Potential native plant community. See Climax plant community.

Potential rooting depth (effective rooting depth). Depth to which roots could penetrate if the content of moisture in the soil were adequate. The soil has no properties restricting the penetration of roots to this depth.

Prescribed burning. Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.

Productivity, soil. The capability of a soil for producing a specified plant or sequence of plants under specific management.

Profile, soil. A vertical section of the soil extending through all its horizons and into the parent material.

Proper grazing use. Grazing at an intensity that maintains enough cover to protect the soil and maintain or improve the quantity and quality of the desirable vegetation. This practice increases the vigor and reproduction capacity of the key plants and promotes the accumulation of litter and mulch necessary to conserve soil and water.

Quartz monzonite. A coarse-grained igneous rock consisting mainly of plagioclase, orthoclase, and quartz with minor amounts of biotite and hornblende. (See Granite and Granodiorite.)

Quartzite. A nonfoliated metamorphic rock consisting mainly of quartz sand cemented with quartz.

Quaternary. The period of the Cenozoic era of geologic time, extending from the end of the Tertiary (about 2 million years ago) to the present and comprising two epochs, the Pleistocene (Ice Age) and the Holocene (Recent).

Rangeland. Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs suitable for grazing or browsing. It includes natural grasslands, savannas, many wetlands, some deserts, tundras, and areas that support certain forb and shrub communities.

Reaction, soil. A measure of acidity or alkalinity of a soil, expressed as pH values. A soil that tests to pH 7.0 is described as precisely neutral in reaction because it is neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid	less than 3.5
Extremely acid	3.5 to 4.4
Very strongly acid	4.5 to 5.0
Strongly acid	5.1 to 5.5
Moderately acid	5.6 to 6.0
Slightly acid	6.1 to 6.5
Neutral	6.6 to 7.3
Slightly alkaline	7.4 to 7.8
Moderately alkaline	7.9 to 8.4
Strongly alkaline	8.5 to 9.0
Very strongly alkaline	9.1 and higher

Redoximorphic concentrations. See Redoximorphic features.

Redoximorphic depletions. See Redoximorphic features.

Redoximorphic features. Redoximorphic features are associated with wetness and result from alternating periods of reduction and oxidation of iron and manganese compounds in the soil. Reduction occurs during saturation with water, and oxidation occurs when the soil is not saturated. Characteristic color patterns are created by these processes. The reduced iron and manganese ions may be removed from a soil if vertical or lateral fluxes of water occur, in which case there is no iron or manganese precipitation in that soil. Wherever the iron and manganese are oxidized and precipitated, they form either soft masses or hard concretions or nodules. Movement of iron and manganese as a result of redoximorphic processes in a soil may result in redoximorphic features that are defined as follows:

1. Redoximorphic concentrations.—These are zones of apparent accumulation of iron-manganese oxides, including:

   A. Nodules and concretions, which are cemented bodies that can be removed from the soil intact. Concretions are distinguished from nodules on the basis of internal organization. A concretion typically has concentric layers that are visible to the naked eye. Nodules do not have visible organized internal structure; *and*

B. Masses, which are noncemented concentrations of substances within the soil matrix; *and*

C. Pore linings, i.e., zones of accumulation along pores that may be either coatings on pore surfaces or impregnations from the matrix adjacent to the pores.

2. Redoximorphic depletions.—These are zones of low chroma (chroma less than that of the matrix) where either iron-manganese oxides alone or both iron-manganese oxides and clay have been stripped out, including:

A. Iron depletions, i.e., zones that contain low amounts of iron and manganese oxides but have a clay content similar to that of the adjacent matrix; *and*

B. Clay depletions, i.e., zones that contain low amounts of iron, manganese, and clay (often referred to as silt coatings or skeletans).

3. Reduced matrix.—This is a soil matrix that has low chroma *in situ* but undergoes a change in hue or chroma within 30 minutes after the soil material has been exposed to air.

Reduced matrix. See Redoximorphic features.

Reduction. Any chemical reaction in which there is uptake of an electron by a molecule or atom.

Regolith. All unconsolidated earth materials above the solid bedrock. It includes material weathered in place from all kinds of bedrock and alluvial, glacial, eolian, lacustrine, and pyroclastic deposits.

Relief. The relative difference in elevation between the upland summits and the lowlands or valleys of a given region.

Residuum (residual soil material). Unconsolidated, weathered or partly weathered mineral material that accumulated as bedrock disintegrated in place.

Restrictive feature. A nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly reduce the movement of water and/or air through the soil or that otherwise provide an unfavorable root environment.

Rill. A very small, steep-sided channel resulting from erosion and cut in unconsolidated materials by concentrated but intermittent flow of water. A rill generally is not an obstacle to wheeled vehicles and is shallow enough to be smoothed over by ordinary tillage.

Riparian. Refers to areas adjacent to water or wetlands; vegetation is dependent on water or use and management directly impacts the water or wetlands.

Riser. The vertical or steep side slope (e.g., escarpment) of terraces, flood-plain steps, or other stepped landforms; commonly a recurring part of a series of natural, steplike landforms, such as successive stream terraces.

Riverwash. Unstable areas of sandy, silty, clayey, gravelly, and cobbly sediment. These areas are flooded, washed, and reworked by rivers so frequently that they support little or no vegetation.

Road cut. A sloping surface produced by mechanical means during road construction. It is commonly on the uphill side of the road.

Rock fragments. Rock or mineral fragments that are 2 millimeters in diameter or more (i.e., gravel, cobbles, stones, and boulders). Rock fragments have a strongly cemented or stronger rupture-resistance class.

Rock outcrop. Exposures of bare bedrock.

Rubble land. Areas that consist of cobbles, stones, and boulders, commonly at the base of mountains.

Root zone. The part of the soil that can be penetrated by plant roots.

Runoff. The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface

runoff. Water that enters the soil before reaching surface streams is called ground-water runoff or seepage flow from ground water.

Saline soil. A soil containing soluble salts in an amount that impairs growth of plants. A saline soil does not contain excess exchangeable sodium.

Sand. As a soil separate, individual rock or mineral fragments from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.

Sandstone. Sedimentary rock containing dominantly sand-sized particles.

Sandy. A particle-size class in which the texture of the fine-earth fraction is sand or loamy sand but not loamy very fine sand or very fine sand; it is less than 35 percent rock fragments by volume.

Sandy-skeletal. A particle-size class that is 35 percent or more, by volume, rock fragments 2 millimeters in diameter or larger. The fine-earth fraction is sandy.

Sapling/pole stage. A forest successional stage in which the vegetation of a stand is dominantly saplings and pole-sized trees (generally 2 to 9 inches in diameter at breast height). The canopy cover and understory production are intermediate between the herbaceous or shrub stage and the pole stage.

Sapric soil material (muck). The most highly decomposed of all organic soil material. Muck has the least amount of plant fiber, the highest bulk density, and the lowest water content at saturation of all organic soil material.

Saprolite. Soft, friable bedrock that retains the fabric and structure of the parent rock while exhibiting weathering of crystals.

Saturated hydraulic conductivity (Ksat). The ease with which pores of a saturated soil transmit water. Formally, the proportionality coefficient that expresses the relationship of the rate of water movement to hydraulic gradient in Darcy's Law, a law that describes the rate of water movement through porous media. Commonly abbreviated as "Ksat." Terms describing saturated hydraulic conductivity are *very high*, 100 or more micrometers per second (14.17 or more inches per hour); *high*, 10 to 100 micrometers per second (1.417 to 14.17 inches per hour); *moderately high*, 1 to 10 micrometers per second (0.1417 inch to 1.417 inches per hour); *moderately low*, 0.1 to 1 micrometer per second (0.01417 to 0.1417 inch per hour); *low*, 0.01 to 0.1 micrometer per second (0.001417 to 0.01417 inch per hour); and *very low*, less than 0.01 micrometer per second (less than 0.001417 inch per hour). To convert inches per hour to micrometers per second, multiply inches per hour by 7.0572. To convert micrometers per second to inches per hour, multiply micrometers per second by 0.1417.

Saturation. Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.

Scarification. The act of abrading, scratching, loosening, crushing, or modifying the surface to increase water absorption or to provide a more tillable soil.

Schist. A medium- to coarse-grained foliated metamorphic rock in which the platy minerals are clearly visible. Micaceous minerals commonly are present.

Secondary carbonates and silica. Calcium carbonate and silica weathered from the soil matrix in the upper part of the soil and then transported and deposited in the lower part by water moving through the soil profile.

Sedimentary rock. A consolidated deposit of clastic particles, chemical precipitates, or organic remains accumulated at or near the surface of the earth under normal low temperature and pressure conditions. Sedimentary rocks include consolidated equivalents of alluvium, colluvium, drift, and eolian, lacustrine, and marine deposits. Examples are sandstone, siltstone, mudstone, claystone, shale, conglomerate, limestone, dolomite, and coal.

Sequum. A sequence consisting of an illuvial horizon and the overlying eluvial horizon. (See Eluviation.)

Seral. Refers to the relative transitory aggregation of plants and animals within a sere; a preclimax stage of succession.

Seral species. A species associated with the early or middle stages of ecological succession.

Seral stand. A vegetative community composed of seral species.

Sere. The stages in an ecological succession.

Series, soil. A group of soils that have profiles that are almost alike, except for differences in texture of the surface layer. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.

Sheet erosion. The removal of a fairly uniform layer of soil material from the land surface by the action of rainfall and surface runoff.

Shoulder. The convex, erosional surface near the top of a hillslope. A shoulder is a transition from summit to backslope.

Shrink-swell (in tables). The shrinking of soil when dry and the swelling when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.

Side slope (geomorphology). A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel. Side slopes are dominantly colluvium and slope-wash sediments.

Silica. A combination of silicon and oxygen. The mineral form is called quartz.

Silt. As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.

Similar soils. Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.

Site index. A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and codominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.

Slope. The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance. In this survey, classes for simple slopes are as follows:

Level	0 to 2 percent
Gently sloping	2 to 5 percent
Moderately sloping	5 to 15 percent
Moderately steep	15 to 30 percent
Steep	30 to 60 percent
Very steep	60 percent and higher

Slope alluvium. Sediment gradually transported down the slopes of mountains or hills primarily by nonchannel alluvial processes (i.e., slope-wash processes) and characterized by particle sorting. Lateral particle sorting is evident on long slopes. In a profile sequence, sediments may be distinguished by differences in size and/or specific gravity of rock fragments and may be separated by stone lines. Burnished peds and sorting of rounded or subrounded gravel or cobbles distinguish these materials from unsorted colluvial deposits.

Slow refill (in tables). The slow filling of ponds, resulting from restricted water transmission in the soil.

Slow water movement (in tables). Restricted downward movement of water through the soil. (See Saturated hydraulic conductivity.)

Slump. A mass movement process characterized by a landslide involving shearing and rotary movement of a generally independent mass of rock or earth along a curved slip surface. The mass (slump) has its axis parallel to the slope from which it descends. A slump surface commonly exhibits a reversed slope facing uphill.

Sodic (alkali) soil. A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Sodium adsorption ratio (SAR). A measure of the amount of sodium (Na) relative to calcium (Ca) and magnesium (Mg) in the water extract from saturated soil paste. It is the ratio of the Na concentration divided by the square root of one-half of the Ca + Mg concentration.

Soft bedrock. Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.

Soil. A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief and by the passage of time.

Soil separates. Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand	2.0 to 1.0
Coarse sand	1.0 to 0.5
Medium sand	0.5 to 0.25
Fine sand	0.25 to 0.10
Very fine sand	0.10 to 0.05
Silt	0.05 to 0.002
Clay	less than 0.002

Solum. The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.

Stone line. In a vertical cross section, a line formed by scattered fragments or a discrete layer of angular and subangular rock fragments (commonly a gravel- or cobble-sized lag concentration) that formerly was draped across a topographic surface and was later buried by additional sediments. A stone line generally caps material that was subject to weathering, soil formation, and erosion before burial. Many stone lines seem to be buried erosion pavements, originally formed by sheet and rill erosion across the land surface.

Stones. Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.

Stoniness (or boulderiness). The relative proportion of larger rock fragments on the surface layer. Used as map unit phase designation for soils containing sufficient amounts of stones and boulders to impose important restrictions on use and management. These phases should not be confused with the use of fragments as textural modifiers. The four phases recognized in this survey are:

Stony (or bouldery).—The areas have enough stones and boulders at or near the surface to be a continuing nuisance during operations that mix the surface layer, but they do not make most such operations impractical. Conventional, wheeled vehicles can move with reasonable freedom over the area. Rocks may damage both the equipment that mixes the soil and the vehicles that move on the surface. Large rock fragments cover about 0.01 to 0.1 percent of the surface.

Very stony (or very bouldery).—The areas have so many stones and boulders at or near the surface that operations that mix the surface layer either require heavy

equipment or use of implements that can operate between the larger ones. Tillage with conventionally powered farm equipment is impractical. Wheeled tractors and vehicles with high clearance can operate on carefully chosen routes over and around stones and boulders. Large rock fragments cover about 0.1 to 3 percent of the surface.

Extremely stony (or extremely bouldery).—The areas have so many stones and boulders at or near the surface that wheeled powered equipment, other than some special types, can operate only along selected routes. Tracked vehicles can be used in most places, although some routes have to be cleared. Large rock fragments cover about 3 to 15 percent of the surface.

Rubbly and very rubbly.—The areas have so many stones and boulders at or near the surface that tracked vehicles cannot be used in most places. Large rock fragments cover about 15 to 90 percent of the surface.

Stony. Refers to a soil containing stones in numbers that interfere with or prevent tillage.

Stream terrace. One of a series of platforms in a stream valley, flanking and more or less parallel to the stream channel. Originally formed near the level of the stream. Represents the remnants of an abandoned flood plain, streambed, or valley floor produced during a former state of fluvial erosion or deposition.

Stripcropping. Growing crops in a systematic arrangement of strips or bands that provide vegetative barriers to wind erosion and water erosion.

Structure, soil. The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are—*platy* (laminated), *prismatic* (vertical axis of aggregates longer than horizontal), *columnar* (prisms with rounded tops), *blocky* (angular or subangular), and *granular*. *Structureless* soils are either *single grained* (each grain by itself, as in dune sand) or *massive* (the particles adhering without any regular cleavage, as in many hardpans).

Stubble mulch. Stubble or other crop residue left on the soil or partly worked into the soil. It protects the soil from wind erosion and water erosion after harvest, during preparation of a seedbed for the next crop, and during the early growing period of the new crop.

Subaqueous. Refers to conditions and processes, features, or deposits that exist in or under water, especially fresh water, as in a lake or stream.

Subduction. The process of one lithospheric plate descending beneath another.

Subsoil. Technically, the B horizon; roughly, the part of the solum below plow depth.

Subsoiling. Tilling a soil below normal plow depth, ordinarily to shatter a hardpan or claypan.

Substratum. The part of the soil below the solum.

Subsurface layer. Technically, the E horizon. Generally refers to a leached horizon that is lighter in color and lower in content of organic matter than the overlying surface layer.

Summer fallow. The tillage of uncropped land during the summer to control weeds and allow storage of moisture in the soil for the growth of a later crop. A practice common in semiarid regions, where annual precipitation is not enough to produce a crop every year. Summer fallow is frequently practiced before planting winter grain.

Summit. The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.

Surface layer. The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the “plow layer,” or the “Ap horizon.”

Surface soil. The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.

Talus. Rock fragments of any size or shape (commonly coarse and angular) derived from and lying at the base of a cliff or very steep rock slope. The accumulated mass of such loose broken rock formed chiefly by falling, rolling, or sliding.

Taxadjuncts. Soils that cannot be classified in a series recognized in the classification system. Such soils are named for a series they strongly resemble and are designated as taxadjuncts to that series because they differ in ways too small to be of consequence in interpreting their use and behavior. Soils are recognized as taxadjuncts only when one or more of their characteristics are slightly outside the range defined for the family of the series for which the soils are named.

Tectonic. Pertaining to the forces involved in, or the resulting structures of, deformation of the earth's crust.

Tephra. A collective term for all clastic volcanic material that is ejected from a vent during an eruption and transported through the air. It includes ash, blocks, cinders, lapilli, scoria, and pumice.

Terminal moraine. An end moraine that marks the farthest advance of a glacier. It typically has the form of a massive arcuate or concentric ridge, or complex of ridges, and is underlain by till and other types of drift.

Terrace (conservation). An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field generally is built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.

Terrace. (geomorphology). A steplike surface, bordering a valley floor or shoreline, that represents the former position of a flood plain, lake, or seashore. The term is usually applied both to the relatively flat summit surface (tread) that was cut or built by stream or wave action and to the steeper descending slope (scarp or riser) that has graded to a lower base level of erosion.

Terracettes. Small, irregular steplike forms on steep hillslopes, especially in pasture, formed by creep or erosion of surficial materials that may be induced or enhanced by trampling of livestock, such as sheep or cattle.

Tertiary. The period of geologic time from approximately 2 to 63 million years ago (radiometric dates). The earlier of the two geologic periods comprising the Cenozoic era.

Texture, soil. The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are *sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay,* and *clay*. The sand, loamy sand, and sandy loam classes may be further divided by specifying "coarse," "fine," or "very fine."

Texture, soil. The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are *sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay,* and *clay*. The sand, loamy sand, and sandy loam classes may be further divided by specifying "coarse," "fine," or "very fine."

Thin layer (in tables). Otherwise suitable soil material that is too thin for the specified use.

Till. Dominantly unsorted and nonstratified drift, generally unconsolidated and deposited directly by a glacier without subsequent reworking by meltwater, and consisting of a heterogeneous mixture of clay, silt, sand, gravel, stones, and boulders; rock fragments of various lithologies are embedded within a finer matrix that can range from clay to sandy loam.

Till plain. An extensive area of level to gently undulating soils underlain predominantly by till and bounded at the distal end by subordinate recessional or end moraines.

Tilth, soil. The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.

Toeslope. The gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.

Topsoil. The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.

Trace elements. Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.

Tread. The flat to gently sloping, topmost, laterally extensive slope of terraces, flood-plain steps, or other stepped landforms; commonly a recurring part of a series of natural steplike landforms, such as successive stream terraces.

Udic. A soil moisture regime common to a climate that has moisture throughout the year. The soil moisture control section is dry for less than 45 consecutive days during the 4 months following the summer solstice.

Umbric epipedon. A thick, dark-colored, humus-rich surface horizon that has low base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

Understory. Plants in a forest community that grow to a height of 4.5 feet or less.

Upland. An informal, general term for the higher ground of a region, in contrast with a low-lying adjacent area, such as a valley or plain, or for land at a higher elevation than the flood plain or low stream terrace; land above the footslope zone of the hillslope continuum.

Valley fill. The unconsolidated sediment deposited by any agent (water, wind, ice, or mass wasting) so as to fill or partly fill a valley.

Variegation. Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.

Varve. A sedimentary layer or a lamina or sequence of laminae deposited in a body of still water within a year. Specifically, a thin pair of graded glaciolacustrine layers seasonally deposited, usually by meltwater streams, in a glacial lake or other body of still water in front of a glacier.

Volcanic ash mantle. A surface layer of soil that contains 30 percent volcanic glass or more overlying other soil material. The mantle has low bulk density and high water holding capacity.

Water bars. Smooth, shallow ditches or depressional areas that are excavated at an angle across a sloping road. They are used to reduce the downward velocity of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.

Weathering. All physical disintegration, chemical decomposition, and biologically induced changes in rocks or other deposits at or near the earth's surface by atmospheric or biologic agents or by circulating surface waters but involving essentially no transport of the altered material.

Well graded. Refers to soil material consisting of coarse grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.

Wilting point (or permanent wilting point). The moisture content of soil, on an oven-dry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.

Windthrow. The uprooting and tipping over of trees by the wind.

Xeric. A soil moisture regime common to a climate having moist winters and dry summers. The soils are dry in the moisture control section for more than 45

consecutive days during the 4 months following the summer solstice and are moist for more than 45 consecutive days during the 4 months following the winter solstice.

Tables

Table 1.--Temperature and Precipitation

(Recorded in the period 1971 to 2000 at the Spokane Weather Service Office Airport, Washington [7938])

Month	Temperature						Precipitation				
	Average daily maximum	Average daily minimum	Average daily	2 years in 10 will have-- Maximum temperature higher than--	2 years in 10 will have-- Minimum temperature lower than--	Average number of growing degree days*	Average	2 years in 10 will have-- Less than--	2 years in 10 will have-- More than--	Average number of days with 0.10 inch or more	Average snowfall
	°F	*°F*	*°F*	*°F*	*°F*	*Units*	*In*	*In*	*In*		*In*
January-----	32.9	21.7	27.3	51	-9	5	1.83	1.17	2.42	6	12.4
February----	39.4	25.8	32.6	56	-4	16	1.51	0.88	2.08	5	7.9
March-------	48.6	30.4	39.5	66	12	65	1.53	0.90	2.09	5	2.7
April-------	57.5	35.5	46.5	79	23	205	1.28	0.64	1.84	4	0.7
May---------	66.2	42.6	54.4	89	28	448	1.60	0.91	2.22	4	0.1
June--------	74.0	49.2	61.6	94	36	647	1.18	0.64	1.65	3	0
July--------	82.6	54.6	68.6	100	42	887	0.76	0.26	1.27	2	0
August------	82.6	54.5	68.6	99	41	887	0.68	0.20	1.14	1	0
September---	72.5	45.9	59.2	93	29	580	0.76	0.18	1.31	2	0
October-----	58.5	35.8	47.1	81	18	245	1.06	0.31	1.66	3	0.4
November----	41.1	28.5	34.8	60	5	36	2.24	1.12	3.21	6	6.8
December----	32.9	21.6	27.2	52	-8	6	2.25	1.27	3.11	7	13.2
Yearly:											
Average---	57.4	37.2	47.3	---	---	---	---	---	---	---	---
Extreme---	103	-24	---	101	-14	---	---	---	---	---	---
Total-----	---	---	---	---	---	4,026	16.67	14.04	19.19	48	44.3

*A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F).

Table 2.--Freeze Dates in Spring and Fall

(Recorded in the period 1971-2000 at the Spokane Weather Station Office Airport, Washington [7938])

Probability	Temperature		
	24 °F or lower	28 °F or lower	32 °F or lower
Last freezing temperature in spring:			
1 year in 10 later than--	April 16	May 5	May 17
2 years in 10 later than--	April 8	April 29	May 11
5 years in 10 later than--	March 24	April 17	May 1
First freezing temperature in fall:			
1 year in 10 earlier than--	October 6	September 27	September 18
2 years in 10 earlier than--	October 12	October 3	September 23
5 years in 10 earlier than--	October 23	October 14	October 2

Table 3.--Growing Season

(Recorded in the period 1971 to 2000 at the Spokane Weather Station Office Airport, Washington [7938])

Probability	Daily minimum temperature during growing season		
	Higher than 24 °F	Higher than 28 °F	Higher than 32 °F
	Days	*Days*	*Days*
9 years in 10	183	152	130
8 years in 10	193	162	138
5 years in 10	212	179	153
2 years in 10	231	197	168
1 year in 10	241	206	176

Table 4.--Acreage and Proportionate Extent of the Soils

Map symbol	Soil name	Acres	Percent
1001	Bridgeson ashy silt loam, 0 to 3 percent slopes	1,775	0.2
1010	Caldwell-Thatuna complex, 0 to 8 percent slopes	10,917	1.0
1015	Caldwell silt loam, 0 to 3 percent slopes	1,129	*
1020	Cocolalla ashy silt loam, 0 to 3 percent slopes	8,944	0.8
1021	Cocolalla-Hardesty complex, 0 to 3 percent slopes	15,494	1.4
1030	Emdent ashy silt loam, 0 to 3 percent slopes	1,502	0.1
1040	Hardesty ashy silt loam, 0 to 3 percent slopes	3,060	0.3
1050	Hoodoo-Kronquist complex, 0 to 3 percent slopes	4,126	0.4
1070	Mondovi silt loam, 0 to 8 percent slopes	3,680	0.3
1080	Narcisse silt loam, 0 to 3 percent slopes	4,777	0.4
1081	Narcisse silt loam, 3 to 8 percent slopes	612	*
1090	Peone-Saltese complex, 0 to 3 percent slopes	1,304	0.1
1091	Peone ashy silt loam, drained, 0 to 3 percent slopes	1,177	0.1
1092	Hoodoo ashy silt loam, 0 to 3 percent slopes	1,171	0.1
1120	Lovell ashy silt loam, 0 to 3 percent slopes	925	*
1130	Colburn ashy loam, 0 to 3 percent slopes	1,363	0.1
1200	Endoaquolls and Fluvaquents, 0 to 3 percent slopes	3,163	0.3
1203	Haploxerolls ashy silt loam, channeled, 0 to 8 percent slopes	4,271	0.4
1300	Aquepts ashy loam, frigid, 0 to 3 percent slopes	2,855	0.3
2040	Klickson gravelly ashy silt loam, mass wasted, 15 to 30 percent slopes	1,855	0.2
2041	Klickson gravelly ashy silt loam, 30 to 60 percent slopes	1,973	0.2
2042	Rock outcrop-Klickson-Speigle complex, 60 to 80 percent slopes	1,247	0.1
2043	Klickson-Speigle complex, mass wasted, 15 to 30 percent slopes	5,024	0.4
2044	Klickson-Speigle complex, 30 to 60 percent slopes	1,265	0.1
2045	Marble-Speigle complex, mass wasted, 8 to 30 percent slopes	1,753	0.2
2046	Klickson-Speigle-Rock outcrop complex, 30 to 60 percent slopes	4,705	0.4
2050	Speigle cobbly ashy loam, 15 to 30 percent slopes	1,232	0.1
2051	Speigle cobbly ashy loam, 30 to 60 percent slopes	698	*
2052	Brincken, moist-Speigle complex, mass wasted, 8 to 25 percent slopes	2,732	0.2
2053	Speigle-Rock outcrop complex, 15 to 30 percent slopes	5,789	0.5
2054	Speigle-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	7,861	0.7
2070	Bobbitt-Lacy complex, 0 to 8 percent slopes	2,244	0.2
2071	Bobbitt-Speigle complex, 8 to 25 percent slopes	2,969	0.3
2080	Gibbs ashy silt loam, 0 to 8 percent slopes	6,066	0.5
2081	Gibbs ashy silt loam, 8 to 15 percent slopes	2,066	0.2
2085	Tucannon ashy silt loam, 0 to 8 percent slopes	6,129	0.5
2090	Rockly-Tucannon complex, 15 to 35 percent slopes	905	*
2160	Scoap-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	394	*
3010	Alecanyon cobbly ashy coarse sandy loam, 15 to 40 percent slopes, very stony surface	244	*
3015	Seaboldt ashy loam, dry, 0 to 8 percent slopes	3,425	0.3
3020	Bong ashy sandy loam, 0 to 8 percent slopes	1,836	0.2
3022	Bong ashy sandy loam, moist, 0 to 8 percent slopes	2,005	0.2
3024	Phoebe-Bong, moist, complex, 0 to 8 percent slopes	1,006	*
3025	Bong ashy sandy loam, moist, 15 to 30 percent slopes	351	*
3026	Phoebe, dry-Bong complex, 0 to 8 percent slopes	9,541	0.8
3030	Bonner ashy fine sandy loam, 0 to 8 percent slopes	5,829	0.5
3031	Bonner-Wapal complex, 8 to 15 percent slopes	1,207	0.1
3039	Alecanyon-Rockly complex, 0 to 15 percent slopes	3,443	0.3
3040	Cheney-Alecanyon complex, 0 to 8 percent slopes	16,087	1.4
3041	Alecanyon, very stony-Cheney complex, 0 to 8 percent slopes	13,046	1.1
3042	Alecanyon, very stony-Cheney complex, 8 to 15 percent slopes	1,022	*
3044	Cheney ashy silt loam, 0 to 8 percent slopes	25,098	2.2
3045	Rockly-Deno complex, 0 to 15 percent slopes	31,159	2.7
3046	Cheney-Seaboldt, dry, complex, 0 to 8 percent slopes	4,380	0.4
3047	Rockly-Rock outcrop-Deno complex, 0 to 15 percent slopes	4,153	0.4
3048	Rockly-Hardesty complex, 0 to 15 percent slopes	6,375	0.6
3049	Rockly-Rock outcrop-Cocolalla complex, 0 to 15 percent slopes	4,556	0.4
3054	Clayton ashy fine sandy loam, 0 to 8 percent slopes	4,893	0.4
3055	Clayton-Hagen complex, 8 to 25 percent slopes	2,461	0.2
3056	Hagen ashy sandy loam, 0 to 3 percent slopes	1,426	0.1

See footnote at end of table.

Table 4.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
3057	Hagen ashy sandy loam, 3 to 8 percent slopes	2,477	0.2
3060	Dearyton ashy silt loam, 0 to 8 percent slopes	1,844	0.2
3061	Dearyton ashy silt loam, 8 to 15 percent slopes	2,455	0.2
3062	Dearyton ashy silt loam, 15 to 30 percent slopes	970	*
3070	Eloika ashy very fine sandy loam, 0 to 8 percent slopes	3,929	0.3
3071	Stien ashy silt loam, 0 to 8 percent slopes, very stony	5,165	0.5
3072	Stien ashy silt loam, 8 to 15 percent slopes, very stony	1,569	0.1
3073	Stien, very stony-Rock outcrop complex, 15 to 30 percent slopes	324	*
3074	Eloika ashy very fine sandy loam, moist, 0 to 8 percent slopes	2,030	0.2
3080	Opportunity very gravelly ashy loam, 0 to 3 percent slopes	8,170	0.7
3081	Opportunity very gravelly ashy loam, 3 to 8 percent slopes	1,791	0.2
3082	Opportunity very gravelly ashy loam, 8 to 15 percent slopes	242	*
3083	Garrison very gravelly ashy loam, 0 to 8 percent slopes	833	*
3084	Garrison very gravelly ashy loam, 8 to 15 percent slopes	399	*
3085	Garrison very gravelly ashy loam, 15 to 30 percent slopes	381	*
3087	Garrison very gravelly ashy loam, 0 to 8 percent slopes, extremely stony surface	653	*
3090	Glenrose ashy silt loam, 0 to 8 percent slopes	2,318	0.2
3091	Glenrose ashy silt loam, 8 to 25 percent slopes	8,006	0.7
3101	Green Bluff ashy silt loam, 0 to 8 percent slopes	5,537	0.5
3102	Green Bluff ashy silt loam, 8 to 15 percent slopes	3,061	0.3
3110	Fourmound-Stutler complex, 0 to 8 percent slopes	3,124	0.3
3112	Stutler gravelly ashy loam, 0 to 15 percent slopes, extremely bouldery surface	6,273	0.6
3113	Stutler-Springdale complex, 3 to 15 percent slopes	16,691	1.5
3114	Rockly-Fourmound complex, 0 to 15 percent slopes	38,080	3.3
3115	Northstar-Rock outcrop complex, 3 to 15 percent slopes	30,206	2.7
3116	Northstar-Rockly complex, 0 to 8 percent slopes	4,982	0.4
3117	Northstar-Rock outcrop-Rockly complex, 0 to 15 percent slopes	20,799	1.8
3118	Rockly-Cocolalla complex, 0 to 8 percent slopes	7,770	0.7
3120	Marble loamy sand, 0 to 8 percent slopes	10,319	0.9
3121	Marble loamy sand, 8 to 15 percent slopes	4,322	0.4
3122	Marble loamy sand, 15 to 30 percent slopes	4,232	0.4
3123	Marble loamy sand, 30 to 55 percent slopes	2,202	0.2
3126	Rock outcrop-Northstar complex, 15 to 30 percent slopes	10,084	0.9
3127	Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes	3,422	0.3
3130	Phoebe ashy sandy loam, 0 to 3 percent slopes	3,585	0.3
3131	Phoebe ashy sandy loam, 3 to 8 percent slopes	1,228	0.1
3132	Bong, moist-Phoebe complex, 8 to 15 percent slopes	1,452	0.1
3133	Phoebe ashy sandy loam, dry, 0 to 3 percent slopes	1,297	0.1
3134	Phoebe ashy sandy loam, dry, 3 to 8 percent slopes	275	*
3135	Bong-Phoebe, dry, complex, 8 to 15 percent slopes	1,466	0.1
3140	Springdale gravelly ashy coarse sandy loam, 0 to 8 percent slopes	14,409	1.3
3141	Springdale gravelly ashy coarse sandy loam, 8 to 15 percent slopes	2,946	0.3
3142	Spens very gravelly loamy coarse sand, 15 to 30 percent slopes	3,256	0.3
3143	Spens very gravelly loamy coarse sand, 30 to 65 percent slopes	3,637	0.3
3144	Wapal gravelly ashy coarse sandy loam, 0 to 8 percent slopes	3,437	0.3
3145	Wapal gravelly ashy coarse sandy loam, 15 to 30 percent slopes	2,176	0.2
3146	Scoap-Wapal complex, 30 to 60 percent slopes	2,904	0.3
3147	Spens very gravelly loamy coarse sand, cool, 15 to 30 percent slopes	39	*
3148	Spens very gravelly loamy coarse sand, cool, 30 to 65 percent slopes	960	*
3200	Torboy fine gravelly ashy coarse sandy loam, 0 to 3 percent slopes	2,119	0.2
3201	Torboy ashy sandy loam, 3 to 8 percent slopes	7,178	0.6
3202	Torboy-Blackprince complex, 8 to 15 percent slopes	6,033	0.5
3210	Kaniksu ashy sandy loam, 0 to 3 percent slopes	7,748	0.7
3211	Kaniksu ashy sandy loam, 3 to 8 percent slopes	5,145	0.5
3212	Kaniksu, dry-Seaboldt complex, 0 to 8 percent slopes	2,093	0.2
3220	Stapaloop ashy fine sandy loam, 0 to 8 percent slopes	7,759	0.7
3221	Stapaloop-Kaniksu, dry complex, 8 to 25 percent slopes	3,031	0.3
3222	Stapaloop-Seaboldt complex, 0 to 8 percent slopes	1,411	0.1
3300	Scrabblers ashy fine sandy loam, 0 to 3 percent slopes	4,380	0.4

See footnote at end of table.

Table 4.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
3301	Scrabblers ashy fine sandy loam, 3 to 8 percent slopes	3,964	0.3
3302	Scrabblers ashy fine sandy loam, 8 to 15 percent slopes	557	*
3303	Scrabblers-Torboy complex, 3 to 15 percent slopes	1,340	0.1
3401	Elmira loamy sand, 3 to 15 percent slopes	2,362	0.2
3402	Elmira loamy sand, 15 to 30 percent slopes	1,071	*
3403	Elmira loamy sand, 30 to 60 percent slopes	1,018	*
3404	Elmira-Seaboldt complex, 8 to 25 percent slopes	574	*
3500	Uhlig ashy silt loam, 0 to 8 percent slopes	929	*
3501	Brincken, moist-Uhlig complex, 0 to 8 percent slopes	4,590	0.4
3502	Brincken, moist-Fourmound complex, 0 to 15 percent slopes	1,294	0.1
3503	Uhlig ashy silt loam, dry, 0 to 8 percent slopes	4,412	0.4
3504	Brincken ashy silt loam, 0 to 8 percent slopes	5,039	0.4
3505	Seaboldt, warm-Brincken, moist complex, 0 to 8 percent slopes	723	*
3600	Seaboldt ashy loam, 0 to 8 percent slopes	1,174	0.1
3601	Seaboldt ashy loam, 8 to 15 percent slopes	174	*
4000	Hunters ashy silt loam, 0 to 8 percent slopes	1,937	0.2
4001	Cedonia ashy silt loam, 0 to 8 percent slopes	2,015	0.2
4002	Cedonia ashy silt loam, 8 to 25 percent slopes	1,817	0.2
4031	Lakespring ashy loam, 0 to 8 percent slopes	1,827	0.2
4032	Lakespring ashy loam, 8 to 25 percent slopes	1,561	0.1
4033	Lakespring-Brincken, moist, complex, 8 to 25 percent slopes	2,017	0.2
4040	Wolfeson-Fan Lake complex, 0 to 8 percent slopes	2,680	0.2
4041	Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes	899	*
4050	Fan Lake ashy very fine sandy loam, 0 to 8 percent slopes	4,216	0.4
4051	Fan Lake ashy very fine sandy loam, 8 to 25 percent slopes	1,399	0.1
5001	Brickel gravelly ashy silt loam, 15 to 30 percent slopes	288	*
5023	Micapeak-Rock outcrop complex, 8 to 15 percent slopes	575	*
5024	Micapeak-Rock outcrop complex, 15 to 30 percent slopes	1,144	0.1
5025	Micapeak-Rock outcrop complex, 30 to 55 percent slopes	795	*
5026	Micapeak-Spokane complex, 15 to 30 percent slopes	4,775	0.4
5027	Micapeak-Spokane complex, 30 to 55 percent slopes	3,212	0.3
5037	Spokane-Rock outcrop complex, 30 to 55 percent slopes	1,003	*
5040	Spokane-Swakane complex, 3 to 15 percent slopes	2,651	0.2
5041	Spokane-Swakane complex, 15 to 30 percent slopes	1,734	0.2
5053	Jacot, dry-Micapeak complex, 30 to 55 percent slopes	1,529	0.1
5060	Bouldercreek ashy silt loam, moist, 3 to 15 percent slopes	1,447	0.1
5061	Nakarna-Nakarna, dry complex, 15 to 30 percent slopes	316	*
5062	Nakarna ashy silt loam, 30 to 60 percent slopes	1,392	0.1
5067	Quinnamose-Micapeak complex, 15 to 30 percent slopes	9,774	0.9
5068	Quinnamose-Micapeak complex, 30 to 55 percent slopes	9,657	0.8
5070	Lenz-Spokane complex, 3 to 15 percent slopes	4,427	0.4
5071	Lenz-Spokane complex, 15 to 30 percent slopes	4,085	0.4
5072	Lenz-Rock outcrop complex, 3 to 15 percent slopes	3,717	0.3
5073	Lenz-Rock outcrop complex, 15 to 30 percent slopes	7,272	0.6
5074	Lenz-Rock outcrop complex, 30 to 60 percent slopes	4,050	0.4
5080	Vaywood medial silt loam, 15 to 30 percent slopes	879	*
5081	Vaywood medial silt loam, 30 to 60 percent slopes	1,605	0.1
5090	Brevco-Ardtoo complex, 3 to 15 percent slopes	6,354	0.6
5091	Brevco gravelly ashy sandy loam, 15 to 30 percent slopes	1,518	0.1
5092	Brevco-Rock outcrop complex, 30 to 60 percent slopes	3,863	0.3
5093	Blackprince-Ardtoo complex, 15 to 30 percent slopes	6,360	0.6
5094	Blackprince-Ardtoo complex, 30 to 60 percent slopes	4,594	0.4
5102	Boulderjud ashy silt loam, 15 to 30 percent slopes	2,897	0.3
5103	Boulderjud ashy silt loam, 30 to 60 percent slopes	10,201	0.9
5104	Boulderjud ashy silt loam, dry, 15 to 30 percent slopes	1,180	0.1
5105	Boulderjud ashy silt loam, dry, 30 to 60 percent slopes	1,902	0.2
5110	Bouldercreek ashy silt loam, 15 to 30 percent slopes	406	*
5111	Bouldercreek ashy silt loam, 30 to 60 percent slopes	4,066	0.4
5112	Bouldercreek ashy silt loam, dry, 15 to 30 percent slopes	862	*
5113	Bouldercreek, dry-Kellerbutte complex, 30 to 60 percent slopes	2,105	0.2

See footnote at end of table.

Table 4.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
5114	Bouldercreek-Rock outcrop-Bouldercreek, dry complex, 30 to 70 percent slopes	1,155	0.1
5120	Kellerbutte-Boulderjud complex, 15 to 30 percent slopes	1,185	0.1
5121	Kellerbutte-Brevco complex, 15 to 30 percent slopes	2,148	0.2
5122	Kellerbutte-Brevco complex, 30 to 60 percent slopes	2,803	0.2
5123	Kellerbutte-Boulderjud, dry, complex, 30 to 60 percent slopes	3,054	0.3
5130	Brodeer ashy silt loam, 3 to 15 percent slopes	1,860	0.2
5140	Jacot-Hysing complex, dry, 3 to 15 percent slopes	3,052	0.3
5141	Jacot-Hysing complex, 15 to 30 percent slopes	8,835	0.8
5142	Jacot-Hysing complex, 30 to 55 percent slopes	9,837	0.9
5143	Jacot-Hysing complex, dry, 15 to 30 percent slopes	4,024	0.4
5144	Jacot-Hysing complex, dry, 30 to 55 percent slopes	588	*
5211	Kruse ashy silt loam, 8 to 15 percent slopes	1,953	0.2
5212	Kruse ashy silt loam, 15 to 30 percent slopes	4,967	0.4
5213	Kruse ashy silt loam, 30 to 55 percent slopes	3,045	0.3
5310	Kramerhill ashy loam, 3 to 15 percent slopes	1,829	0.2
5313	Kramerhill-Spokane complex, 8 to 25 percent slopes	11,901	1.0
5314	Spokane-Kramerhill complex, 25 to 40 percent slopes	3,083	0.3
5321	Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes	6,235	0.5
5322	Kramerhill-Skalan complex, 15 to 40 percent slopes	362	*
5412	Keeler fine gravelly ashy loam, 8 to 15 percent slopes	718	*
5413	Keeler-Kruse complex, 15 to 30 percent slopes	3,313	0.3
5414	Keeler-Kruse complex, 30 to 60 percent slopes	2,058	0.2
5512	Santa ashy silt loam, 8 to 15 percent slopes	580	*
5513	Santa ashy silt loam, 15 to 35 percent slopes	357	*
5602	Lakestarr-Santa complex, 8 to 15 percent slopes	545	*
5603	Lakestarr-Santa complex, 15 to 30 percent slopes	1,380	0.1
6001	Athena silt loam, 0 to 8 percent slopes	3,053	0.3
6002	Athena silt loam, 8 to 15 percent slopes	9,619	0.8
6003	Athena-Lance complex, 15 to 30 percent slopes	9,235	0.8
6004	Athena-Lance complex, 30 to 60 percent slopes	1,351	0.1
6010	Freeman ashy silt loam, 0 to 8 percent slopes	3,176	0.3
6011	Freeman ashy silt loam, 8 to 15 percent slopes	10,496	0.9
6012	Freeman ashy silt loam, 15 to 25 percent slopes	2,135	0.2
6021	Garfield-Naff complex, 8 to 35 percent slopes	1,832	0.2
6031	Staley-Naff complex, 8 to 25 percent slopes	2,801	0.2
6040	Larkin silt loam, 0 to 8 percent slopes	4,310	0.4
6041	Larkin-Southwick complex, 8 to 15 percent slopes	17,017	1.5
6042	Larkin-Southwick complex, 15 to 25 percent slopes	2,516	0.2
6043	Larkin-Driscoll complex, 0 to 8 percent slopes	851	*
6045	Southwick-Larkin complex, 15 to 25 percent slopes	827	*
6050	Tilma-Latah complex, 0 to 8 percent slopes	2,158	0.2
6061	Naff silt loam, 0 to 8 percent slopes	6,990	0.6
6062	Naff-Thatuna complex, 8 to 25 percent slopes	27,401	2.4
6064	Naff silt loam, 8 to 15 percent slopes	6,916	0.6
6067	Naff-Garfield complex, 3 to 15 percent slopes	40,431	3.5
6068	Naff-Garfield complex, 15 to 25 percent slopes	17,253	1.5
6072	Hanning silt loam, 8 to 15 percent slopes	344	*
6073	Hanning silt loam, 15 to 30 percent slopes	599	*
6074	Hanning silt loam, 30 to 60 percent slopes	283	*
6080	Nez Perce ashy silt loam, 0 to 8 percent slopes	1,549	0.1
6093	Reardan silt loam, 0 to 8 percent slopes	3,400	0.3
6094	Reardan silt loam, 8 to 15 percent slopes	1,758	0.2
6096	Broadax-Reardan silt loams, 3 to 25 percent slopes	5,647	0.5
6110	Broadax silt loam, 0 to 8 percent slopes	1,670	0.1
6111	Broadax silt loam, 8 to 15 percent slopes	5,407	0.5
6112	Broadax silt loam, 15 to 30 percent slopes	3,295	0.3
6130	Thatuna-Naff complex, 8 to 15 percent slopes	5,263	0.5
6131	Thatuna-Naff complex, 15 to 30 percent slopes	8,185	0.7
6140	Driscoll silt loam, 0 to 8 percent slopes	1,584	0.1
6141	Driscoll-Larkin complex, 8 to 15 percent slopes	3,109	0.3

See footnote at end of table.

Table 4.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
6200	Morical ashy silt loam, 0 to 15 percent slopes	411	*
6201	Morical ashy silt loam, 15 to 30 percent slopes	184	*
7090	Urban land-Lenz, disturbed complex, 3 to 15 percent slopes	501	*
7091	Urban land-Lenz, disturbed complex, 15 to 30 percent slopes	400	*
7101	Pits-Dumps complex	3,404	0.3
7102	Riverwash	360	*
7103	Xerolls silt loam, warm, mass wasted, 8 to 25 percent slopes	3,003	0.3
7104	Xerolls silt loam, cool, mass wasted, 8 to 25 percent slopes	5,437	0.5
7105	Urban land, gravelly substratum, 0 to 15 percent slopes	7,410	0.7
7106	Urban land, sandy substratum, 0 to 15 percent slopes	1,931	0.2
7107	Urban land, basalt bedrock substratum, 0 to 15 percent slopes	922	*
7110	Urban land-Opportunity, disturbed complex, 0 to 3 percent slopes	18,302	1.6
7111	Urban land-Opportunity, disturbed complex, 3 to 8 percent slopes	3,360	0.3
7112	Urban land-Opportunity, disturbed complex, 8 to 15 percent slopes	425	*
7115	Urban land-Marblespring, disturbed complex, 0 to 3 percent slopes	1,699	0.1
7116	Urban land-Marblespring, disturbed complex, 3 to 8 percent slopes	335	*
7117	Urban land-Marblespring, disturbed complex, 8 to 15 percent slopes	87	*
7120	Urban land-Marble, disturbed complex, 0 to 3 percent slopes	5,870	0.5
7121	Urban land-Marble, disturbed complex, 3 to 8 percent slopes	3,773	0.3
7122	Urban land-Marble, disturbed complex, 8 to 15 percent slopes	1,653	0.1
7123	Urban land-Marble, disturbed complex, 15 to 30 percent slopes	599	*
7130	Urban land-Northstar, disturbed complex, 0 to 3 percent slopes	936	*
7131	Urban land-Northstar, disturbed complex, 3 to 8 percent slopes	1,271	0.1
7132	Urban land-Northstar, disturbed complex, 8 to 15 percent slopes	484	*
7134	Urban land-Northstar, disturbed complex, 15 to 30 percent slopes	200	*
7140	Urban land-Uhlig, disturbed complex, 0 to 8 percent slopes	121	*
7150	Urban land-Seaboldt, disturbed complex, 0 to 3 percent slopes	215	*
7151	Urban land-Seaboldt, disturbed complex, 3 to 8 percent slopes	394	*
7152	Urban land-Seaboldt, disturbed complex, 8 to 15 percent slopes	321	*
7163	Urban land-Spens, disturbed complex, 15 to 30 percent slopes	276	*
7170	Urban land-Springdale, disturbed complex, 0 to 3 percent slopes	3,545	0.3
7171	Urban land-Springdale, disturbed complex, 3 to 8 percent slopes	1,652	0.1
7172	Urban land-Springdale, disturbed complex, 8 to 15 percent slopes	359	*
7177	Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 0 to 3 percent slopes	374	*
7178	Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 3 to 8 percent slopes	71	*
7179	Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 8 to 15 percent slopes	39	*
7180	Urban land-Phoebe, disturbed complex, 0 to 3 percent slopes	686	*
7181	Urban land-Phoebe, disturbed complex, 3 to 8 percent slopes	1,105	*
7182	Urban land-Phoebe, disturbed complex, 8 to 15 percent slopes	256	*
7190	Urban land-Lakespring, disturbed complex, 0 to 3 percent slopes	41	*
7191	Urban land-Lakespring, disturbed complex, 3 to 8 percent slopes	249	*
7197	Urban land-Spokane, disturbed complex, 15 to 30 percent slopes	296	*
7200	Rock outcrop-Rubble land complex, cliffs, 0 to 90 percent slopes	608	*
8000	Pywell-Bellslake complex, 0 to 3 percent slopes	2,444	0.2
8001	Saltese muck, 0 to 3 percent slopes	3,687	0.3
8002	Saltese muck, drained, 0 to 3 percent slopes	738	*
9124	Caldwell-Cald complex, 0 to 3 percent slopes	883	*
9300	Taney ashy silt loam, 3 to 8 percent slopes	289	*
9301	Taney ashy silt loam, 8 to 20 percent slopes	314	*
9330	Carlinton-Carlinton, dry, complex, 3 to 20 percent slopes	335	*
9335	Carlinton ashy silt loam, dry, 8 to 25 percent slopes	1,180	0.1
9336	Carlinton, dry-Taney complex, 3 to 8 percent slopes	206	*
9340	Arson-Lotuspoint complex, 10 to 40 percent slopes	571	*
9341	Sinkler-Arson complex, 10 to 40 percent slopes	115	*
9342	Sinkler, dry-Arson, dry complex, 10 to 40 percent slopes	127	*
9350	Southwick ashy silt loam, 3 to 8 percent slopes	208	*
9355	Southwick-Driscoll complex, 3 to 15 percent slopes	252	*
9356	Southwick-Driscoll complex, 15 to 25 percent slopes	31	*

See footnote at end of table.

Table 4.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
9363	Larkin-Driscoll complex, 3 to 12 percent slopes	692	*
9364	Larkin-Southwick complex, 3 to 12 percent slopes	132	*
9367	Larkin-Driscoll complex, 12 to 25 percent slopes	212	*
9610	Schumacher silt loam, 5 to 25 percent slopes	1,546	0.1
9611	Schumacher-Tekoa complex, 25 to 40 percent slopes	388	*
9612	Libertybutte-Tekoa complex, 5 to 30 percent slopes	884	*
9613	Ardenvoir, dry-Lotuspoint complex, 5 to 30 percent slopes	360	*
9614	Ardenvoir, dry-Lotuspoint complex, 30 to 65 percent slopes	472	*
9617	Tekoa gravelly ashy silt loam, 15 to 40 percent slopes	1,027	*
9701	Ardenvoir-McCrosket association, 35 to 65 percent slopes	177	*
9703	Ardenvoir, dry-Ardenvoir complex, 35 to 65 percent slopes	219	*
9704	Ardenvoir, dry-Ardenvoir complex, 15 to 35 percent slopes	609	*
9706	Ardenvoir gravelly ashy silt loam, 35 to 65 percent slopes	325	*
9707	Huckle, dry-Ardenvoir complex, 35 to 65 percent slopes	195	*
9710	McCrosket-Ardenvoir association, 15 to 35 percent slopes	688	*
9711	McCrosket-Ardenvoir association, 35 to 65 percent slopes	46	*
9712	McCrosket-Tekoa association, 35 to 65 percent slopes	400	*
9735	Lotuspoint stony ashy silt loam, 35 to 65 percent slopes, stony surface	58	*
9770	Pinecreek gravelly ashy silt loam, 30 to 75 percent slopes	418	*
9775	Pinecreek gravelly ashy silt loam, moist, 20 to 65 percent slopes	275	*
9776	Cassyhill very gravelly ashy silt loam, 35 to 65 percent slopes	59	*
9778	Cassyhill-Lotuspoint complex, 5 to 30 percent slopes	617	*
9782	Ardenvoir, dry-Cassyhill complex, 35 to 65 percent slopes	140	*
W	Water	11,714	1.0
	Total	1,139,469	100.0

*Less than 0.1 percent.

Table 5.--Component Legend

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
1001:					
Bridgeson ashy silt loam, 0 to 3 percent slopes	Bridgeson	80	0	1	3
	Hoodoo	10	0	1	3
	Wolfeson	5	0	3	3
	Pywell	3	0	1	2
	Endoaquolls	2	0	1	3
1010:					
Caldwell-Thatuna complex, 0 to 8 percent slopes	Caldwell	65	0	1	3
	Thatuna	15	3	4	8
	Cald	10	0	1	2
	Latah	5	0	1	3
	Mondovi	3	0	3	8
	Endoaquolls	2	0	1	2
1015:					
Caldwell silt loam, 0 to 3 percent slopes	Caldwell	75	0	1	3
	Cald	10	0	1	2
	Endoaquolls	5	0	1	2
	Mondovi	5	0	3	8
	Narcisse	5	0	3	3
1020:					
Cocolalla ashy silt loam, 0 to 3 percent slopes	Cocolalla	80	0	1	3
	Hardesty	10	0	2	3
	Northstar	3	3	3	3
	Rockly	3	0	3	3
	Saltese	2	0	1	3
	Water	2			
1021:					
Cocolalla-Hardesty complex, 0 to 3 percent slopes	Cocolalla	50	0	1	3
	Hardesty	40	0	2	3
	Rockly	4	0	3	3
	Saltese	3	0	1	3
	Northstar	1	3	3	3
	Speigle	1	0	3	3
	Water	1			
1030:					
Emdent ashy silt loam, 0 to 3 percent slopes	Emdent	80	0	1	3
	Hardesty	10	0	2	3
	Cocolalla	5	0	1	3
	Rockly	3	0	3	3
	Saltese	2	0	1	3
1040:					
Hardesty ashy silt loam, 0 to 3 percent slopes	Hardesty	75	0	2	3
	Narcisse	10	0	2	3
	Bong, moist	5	0	3	3
	Peone	5	0	1	3
	Cocolalla	3	0	1	3
	Northstar	2	3	3	3
1050:					
Hoodoo-Kronquist complex, 0 to 3 percent slopes	Hoodoo	45	0	1	3
	Kronquist	40	0	2	3
	Colburn	10	0	1	3
	Pywell	5	0	1	2

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
1070:					
Mondovi silt loam, 0 to 8 percent slopes	Mondovi	75	0	1	8
	Caldwell	10	0	1	3
	Athena	5	3	3	8
	Endoaquolls	5	0	1	2
	Narcisse	5	0	2	3
1080:					
Narcisse silt loam, 0 to 3 percent slopes	Narcisse	80	0	2	3
	Hardesty	10	0	2	3
	Bong, moist	5	0	3	3
	Kronquist	5	0	2	3
1081:					
Narcisse silt loam, 3 to 8 percent slopes	Narcisse	80	3	3	8
	Hardesty	10	0	2	3
	Kronquist	5	0	2	3
	Opportunity	5	3	4	8
1090:					
Peone-Saltese complex, 0 to 3 percent slopes	Peone	65	0	1	3
	Saltese	20	0	1	3
	Endoaquolls	5	0	1	2
	Kronquist	5	0	2	3
	Peone, drained	4	0	1	3
	Water	1			
1091:					
Peone ashy silt loam, drained, 0 to 3 percent slopes	Peone, drained	70	0	1	3
	Hardesty	10	0	2	3
	Kronquist	10	0	2	3
	Cedonia	5	0	3	5
	Endoaquolls	5	0	1	2
1092:					
Hoodoo ashy silt loam, 0 to 3 percent slopes	Hoodoo	70	0	1	3
	Bellslake	14	0	1	2
	Kronquist	10	0	2	3
	Pywell	5	0	1	2
	Water	1			
1120:					
Lovell ashy silt loam, 0 to 3 percent slopes	Lovell	80	0	1	3
	Colburn	10	0	1	3
	Santa	5	3	3	5
	Freeman	3	3	3	5
	Kronquist	2	0	2	3
1130:					
Colburn ashy loam, 0 to 3 percent slopes	Colburn	80	0	1	3
	Hoodoo	10	0	1	3
	Eloika	5	0	3	8
	Wolfeson	5	0	3	3
1200:					
Endoaquolls and Fluvaquents, 0 to 3 percent slopes	Endoaquolls	40	0	1	3
	Fluvaquents	40	0	1	3
	Hardesty	10	0	2	3
	Saltese	5	0	1	3
	Water	5			

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
1203:					
Haploxerolls ashy silt loam, channeled, 0 to 8 percent slopes	Haploxerolls, channeled	75	0	3	8
	Mondovi	10	0	1	8
	Endoaquolls	5	0	1	3
	Riverwash	5	0	3	8
	Water	5			
1300:					
Aquepts ashy loam, frigid, 0 to 3 percent slopes	Aquepts, frigid	80	0	1	3
	Lovell	5	0	2	3
	Colburn	3	0	1	3
	Freeman	3	3	3	10
	Kaniksu	3	3	4	8
	Kronquist	2	0	2	3
	Pywell	2	0	1	1
	Water	2			
2040:					
Klickson gravelly ashy silt loam, mass wasted, 15 to 30 percent slopes	Klickson, mass wasted	70	15	22	30
	Blinn, stony surface	10	15	20	30
	Green Bluff	5	8	10	15
	Rock outcrop	5			
	Xerolls, frigid, mass wasted	5	10	15	25
	Lacy	3	15	25	30
	Speigle	2	15	15	30
2041:					
Klickson gravelly ashy silt loam, 30 to 60 percent slopes	Klickson	75	30	45	60
	Lacy	9	30	45	60
	Blinn, stony surface	8	30	45	60
	Rock outcrop	5			
	Xerolls, frigid, mass wasted	3	15	20	25
2042:					
Rock outcrop-Klickson-Speigle complex, 60 to 80 percent slopes	Rock outcrop	30	60	70	80
	Klickson	25	60	70	80
	Speigle	25	60	70	80
	Rubble land	14	35	50	60
	Lacy	6	60	70	80

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
2043:					
Klickson-Speigle complex, mass wasted, 15 to 30 percent slopes	Klickson, mass wasted	35	15	22	30
	Speigle, mass wasted	35	15	22	30
	Green Bluff	10	8	10	15
	Klickson	5	15	22	30
	Rock outcrop	5	15	25	30
	Spens	3	15	22	30
	Xerolls, frigid, mass wasted	3	10	15	25
	Fan Lake	2	15	20	25
	Lacy	2	15	25	30
2044:					
Klickson-Speigle complex, 30 to 60 percent slopes	Klickson	40	30	45	60
	Speigle	40	30	45	60
	Green Bluff	8	15	20	25
	Lacy	5	30	45	60
	Spens	3	30	45	60
	Rock outcrop	2	30	45	60
	Rubble land	2	30	40	50
2045:					
Marble-Speigle complex, mass wasted, 8 to 30 percent slopes	Marble, mass wasted	35	8	19	30
	Speigle, mass wasted	30	8	19	30
	Spens	14	8	18	30
	Lakespring	11	8	15	25
	Klickson, mass wasted	5	8	15	30
	Rock outcrop	5	8	15	30
2046:					
Klickson-Speigle-Rock outcrop complex, 30 to 60 percent slopes	Klickson	35	30	45	60
	Speigle	35	30	45	60
	Rock outcrop	20	30	45	60
	Lacy	5	30	45	60
	Spens	3	30	45	60
	Rubble land	2	30	40	50
2050:					
Speigle cobbly ashy loam, 15 to 30 percent slopes	Speigle	70	15	22	30
	Spens	14	15	22	30
	Bobbitt	10	15	22	30
	Lacy	5	15	22	30
	Rock outcrop	1	15	20	30
2051:					
Speigle cobbly ashy loam, 30 to 60 percent slopes	Speigle	70	30	45	60
	Spens	12	30	45	60
	Lacy	10	30	45	60
	Bobbitt	5	30	45	60
	Rubble land	2	30	40	50
	Rock outcrop	1	30	45	60

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
2052:					
Brincken, moist-Speigle complex, mass wasted, 8 to 25 percent slopes	Brincken, moist, mass wasted	50	8	15	25
	Speigle, mass wasted	20	8	15	25
	Gibbs	10	8	15	25
	Lakespring	10	8	15	25
	Klickson, mass wasted	5	8	15	25
	Narcisse	3	0	2	3
	Rock outcrop	2	8	15	25
2053:					
Speigle-Rock outcrop complex, 15 to 30 percent slopes	Speigle	50	15	22	30
	Rock outcrop	15	15	20	30
	Bobbitt	10	15	22	30
	Northstar	10	15	22	30
	Lacy	5	15	22	30
	Rubble land	5	15	20	30
	Spens	5	15	22	30
2054:					
Speigle-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	Speigle	40	30	55	80
	Rubble land	30	30	40	60
	Rock outcrop	15	60	75	90
	Klickson	5	30	45	60
	Lacy	5	30	45	60
	Spens	5	30	45	60
2070:					
Bobbitt-Lacy complex, 0 to 8 percent slopes	Bobbitt	50	0	4	8
	Lacy	25	0	4	8
	Gibbs	12	0	4	8
	Rock outcrop	5	0	5	8
	Hardesty	3	0	2	3
	Lakespring	3	3	5	8
	Stutler	2	0	4	8
2071:					
Bobbitt-Speigle complex, 8 to 25 percent slopes	Bobbitt	50	8	20	25
	Speigle	25	8	20	25
	Gibbs	10	8	20	25
	Lacy	10	8	17	25
	Rock outcrop	5	8	20	25
2080:					
Gibbs ashy silt loam, 0 to 8 percent slopes	Gibbs	70	0	4	8
	Bobbitt	10	0	4	8
	Driscoll	10	0	4	8
	Lacy	5	0	4	8
	Rock outcrop	3	0	5	8
	Caldwell	2	0	1	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
2081:					
Gibbs ashy silt loam, 8 to 15 percent slopes	Gibbs	65	8	12	15
	Bobbitt	10	8	12	15
	Brincken, moist	10	8	10	15
	Driscoll	5	8	10	15
	Speigle	5	8	10	15
	Rock outcrop	3	8	8	15
	Lacy	2	8	12	15
2085:					
Tucannon ashy silt loam, 0 to 8 percent slopes	Tucannon	75	0	3	8
	Cheney	7	0	3	8
	Cocolalla	5	0	1	3
	Rockly	5	0	2	8
	Uhlig, dry	5	0	4	8
	Rock outcrop	3	0	2	8
2090:					
Rockly-Tucannon complex, 15 to 35 percent slopes	Rockly	55	15	25	35
	Tucannon	25	15	25	35
	Rock outcrop	5	15	25	35
	Rubble land	5	15	20	35
	Speigle	5	15	25	35
	Uhlig, dry	5	15	20	25
2160:					
Scoap-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	Scoap	40	30	45	60
	Rubble land	25	30	50	75
	Rock outcrop	15	30	60	90
	Northstar	10	30	45	60
	Springdale	5	8	15	15
	Wapal	5	30	45	60
3010:					
Alecanyon cobbly ashy coarse sandy loam, 15 to 40 percent slopes, very stony surface	Alecanyon, very stony surface	85	15	28	40
	Cheney	10	8	15	15
	Rock outcrop	5	15	30	40
3015:					
Seaboldt ashy loam, dry, 0 to 8 percent slopes	Seaboldt, dry	80	0	4	8
	Cheney	6	0	3	8
	Uhlig, dry	6	0	4	8
	Brincken, moist	3	0	4	8
	Narcisse	3	0	3	8
	Rock outcrop	2			
3020:					
Bong ashy sandy loam, 0 to 8 percent slopes	Bong	70	0	5	8
	Marble	10	0	4	8
	Phoebe, dry	10	0	4	8
	Hardesty	5	0	2	3
	Marblespring	5	0	4	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3022:					
Bong ashy sandy loam, moist, 0 to 8 percent slopes	Bong, moist	80	0	5	8
	Phoebe	10	0	4	8
	Hagen	5	0	4	8
	Marblespring	3	0	4	8
	Hardesty	2	0	2	3
3024:					
Phoebe-Bong, moist, complex, 0 to 8 percent slopes	Phoebe	45	0	4	8
	Bong, moist	40	0	5	8
	Marble	10	0	4	8
	Hardesty	5	0	2	3
3025:					
Bong ashy sandy loam, moist, 15 to 30 percent slopes	Bong, moist	75	15	22	30
	Marble	14	15	22	30
	Phoebe	5	10	15	15
	Spens	5	15	22	30
	Hardesty	1	0	2	3
3026:					
Phoebe, dry-Bong complex, 0 to 8 percent slopes	Phoebe, dry	45	0	4	8
	Bong	40	0	5	8
	Marble	10	0	4	8
	Hardesty	5	0	2	3
3030:					
Bonner ashy fine sandy loam, 0 to 8 percent slopes	Bonner	70	0	4	8
	Scrabblers	10	0	1	3
	Stien, very stony surface	10	0	4	8
	Wapal	5	0	5	8
	Eloika	4	0	3	8
	Colburn	1	0	2	3
3031:					
Bonner-Wapal complex, 8 to 15 percent slopes	Bonner	60	8	12	15
	Wapal	20	8	12	15
	Scrabblers	10	8	12	15
	Stien, very stony surface	7	8	12	15
	Eloika	3	8	10	15
3039:					
Alecanyon-Rockly complex, 0 to 15 percent slopes	Alecanyon	40	0	6	15
	Rockly	30	0	6	15
	Cheney	10	0	5	15
	Deno	10	0	4	15
	Rock outcrop	7	0	5	15
	Fourmound	2	0	4	8
	Cocolalla	1	0	1	3
3040:					
Cheney-Alecanyon complex, 0 to 8 percent slopes	Cheney	50	0	3	8
	Alecanyon	35	0	3	8
	Uhlig, dry	9	0	4	8
	Rock outcrop	2	0	3	8
	Rockly	2	0	3	8
	Uhlig	2	0	3	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3041:					
Alecanyon, very stony-Cheney complex, 0 to 8 percent slopes	Alecanyon, very stony surface	65	0	3	8
	Cheney	20	0	3	8
	Uhlig, dry	7	0	3	8
	Rockly	5	0	3	8
	Rock outcrop	3	0	3	8
3042:					
Alecanyon, very stony-Cheney complex, 8 to 15 percent slopes	Alecanyon, very stony surface	65	8	9	15
	Cheney	25	8	9	15
	Athena	4	8	8	15
	Rock outcrop	2	8	10	15
	Tucannon	2	8	8	15
	Uhlig, dry	2	8	9	15
3044:					
Cheney ashy silt loam, 0 to 8 percent slopes	Cheney	75	0	3	8
	Uhlig, dry	10	0	4	8
	Alecanyon	5	0	3	8
	Cocolalla	3	0	1	3
	Rock outcrop	3	0	3	8
	Seaboldt, dry	2	3	5	8
	Uhlig	2	0	3	8
3045:					
Rockly-Deno complex, 0 to 15 percent slopes	Rockly	60	0	1	15
	Deno	25	0	4	15
	Cocolalla	5	0	1	3
	Rock outcrop	5	0	7	15
	Cheney	3	0	4	8
	Seaboldt, dry	2	3	5	15
3046:					
Cheney-Seaboldt, dry, complex, 0 to 8 percent slopes	Cheney	60	0	3	8
	Seaboldt, dry	25	0	4	8
	Rock outcrop	5	0	3	8
	Rockly	3	0	3	8
	Uhlig, dry	3	0	4	8
	Cocolalla	2	0	1	2
	Fourmound	2	0	3	8
3047:					
Rockly-Rock outcrop-Deno complex, 0 to 15 percent slopes	Rockly	45	0	3	15
	Rock outcrop	20	0	7	15
	Deno	15	0	4	15
	Rock outcrop, cliffs	8	100	150	200
	Cocolalla	3	0	2	3
	Hardesty	3	0	2	3
	Northstar	3	8	12	15
	Speigle	3	8	8	15

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3048:					
Rockly-Hardesty complex, 0 to 15 percent slopes	Rockly	50	0	3	15
	Hardesty	25	0	2	3
	Fourmound	10	0	3	8
	Cocolalla	5	0	1	2
	Rock outcrop	5	0	5	15
	Northstar	3	8	12	15
	Water	2			
3049:					
Rockly-Rock outcrop-Cocolalla complex, 0 to 15 percent slopes	Rockly	45	0	3	15
	Rock outcrop	20	0	5	15
	Cocolalla	15	0	1	2
	Rock outcrop, cliffs	8	100	150	200
	Deno	4	0	4	15
	Northstar	3	8	12	15
	Speigle	3	8	10	15
	Water	2			
3054:					
Clayton ashy fine sandy loam, 0 to 8 percent slopes	Clayton	65	0	3	8
	Clayton, silty subsoil	10	0	3	8
	Hagen	10	3	5	8
	Phoebe, dry	10	0	3	8
	Marblespring	5	0	4	8
3055:					
Clayton-Hagen complex, 8 to 25 percent slopes	Clayton	55	8	10	25
	Hagen	25	8	20	25
	Clayton, silty subsoil	10	8	10	25
	Endoaquolls	5	0	1	3
	Marblespring	5	8	15	15
3056:					
Hagen ashy sandy loam, 0 to 3 percent slopes	Hagen	65	0	3	3
	Bong, moist	10	0	3	3
	Marble	10	0	3	8
	Clayton	5	0	3	3
	Hardesty	5	0	1	3
	Marblespring	5	0	3	3
3057:					
Hagen ashy sandy loam, 3 to 8 percent slopes	Hagen	75	3	4	8
	Marble	10	3	6	12
	Bong, moist	5	3	5	8
	Hardesty	5	0	1	3
	Marblespring	5	3	5	8
3060:					
Dearyton ashy silt loam, 0 to 8 percent slopes	Dearyton	70	0	4	8
	Glenrose	10	0	5	8
	Kramerhill	10	3	5	8
	Bong, moist	5	0	5	8
	Skalan	5	3	5	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3061:					
Dearyton ashy silt loam, 8 to 15 percent slopes	Dearyton	65	8	8	15
	Glenrose	14	8	10	15
	Kramerhill	10	8	12	15
	Bong, moist	5	3	8	15
	Skalan	5	8	12	15
	Endoaquolls	1	0	1	2
3062:					
Dearyton ashy silt loam, 15 to 30 percent slopes	Dearyton	65	15	22	30
	Kramerhill	10	15	22	30
	Skalan	10	15	22	30
	Spokane	10	15	22	30
	Rock outcrop	5	15	25	30
3070:					
Eloika ashy very fine sandy loam, 0 to 8 percent slopes	Eloika	65	0	3	8
	Kaniksu	10	0	3	8
	Scrabblers	10	0	3	8
	Colburn	5	0	1	3
	Stien, very stony surface	5	0	4	8
	Torboy	5	3	5	5
3071:					
Stien ashy silt loam, 0 to 8 percent slopes, very stony	Stien, very stony surface	70	0	3	8
	Scrabblers	10	0	3	8
	Wapal	10	3	5	8
	Colburn	5	0	1	3
	Torboy	5	3	5	8
3072:					
Stien ashy silt loam, 8 to 15 percent slopes, very stony	Stien, very stony surface	70	8	11	15
	Scrabblers	10	8	11	15
	Wapal	10	8	12	15
	Colburn	5	0	1	3
	Rock outcrop	3	8	12	15
	Blackprince	2	8	12	15
3073:					
Stien, very stony-Rock outcrop complex, 15 to 30 percent slopes	Stien, very stony surface	55	15	22	30
	Rock outcrop	15	15	22	30
	Blackprince	10	15	25	30
	Scrabblers	10	8	10	15
	Wapal	10	15	22	30
3074:					
Eloika ashy very fine sandy loam, moist, 0 to 8 percent slopes	Eloika, moist	65	0	3	8
	Kaniksu	10	0	3	8
	Scrabblers	10	0	3	8
	Bonner	4	0	4	8
	Colburn	4	0	1	3
	Torboy	3	3	5	8
	Fan Lake	2	0	5	8
	Wolfeson	2	0	1	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3080:					
Opportunity very gravelly ashy loam, 0 to 3 percent slopes	Opportunity	70	0	1	3
	Bong, moist	10	0	3	3
	Garrison	10	0	3	3
	Hardesty	5	0	2	3
	Springdale	5	0	2	3
3081:					
Opportunity very gravelly ashy loam, 3 to 8 percent slopes	Opportunity	70	3	5	8
	Bong, moist	10	3	5	8
	Garrison	10	3	5	8
	Hardesty	5	0	2	3
	Springdale	5	3	5	8
3082:					
Opportunity very gravelly ashy loam, 8 to 15 percent slopes	Opportunity	70	8	12	15
	Bong, moist	13	8	12	15
	Garrison	10	8	12	15
	Springdale	5	8	12	15
	Hardesty	2	0	2	3
3083:					
Garrison very gravelly ashy loam, 0 to 8 percent slopes	Garrison	80	0	3	8
	Bong, moist	5	0	4	8
	Hardesty	5	0	2	3
	Opportunity	5	0	3	8
	Springdale	5	0	3	8
3084:					
Garrison very gravelly ashy loam, 8 to 15 percent slopes	Garrison	80	8	12	15
	Bong, moist	5	3	8	15
	Garrison, extremely stony surface	5	8	12	15
	Opportunity	5	3	8	15
	Springdale	5	8	12	15
3085:					
Garrison very gravelly ashy loam, 15 to 30 percent slopes	Garrison	90	15	22	30
	Opportunity	4	3	8	15
	Springdale	4	8	12	15
	Urban land	2	0	2	3
3087:					
Garrison very gravelly ashy loam, 0 to 8 percent slopes, extremely stony surface	Garrison, extremely stony surface	75	0	3	8
	Garrison	8	0	3	8
	Bong, moist	5	0	4	8
	Opportunity	5	0	3	8
	Springdale	5	0	3	8
	Urban land	2	0	2	3
3090:					
Glenrose ashy silt loam, 0 to 8 percent slopes	Glenrose	60	0	4	8
	Larkin	14	0	4	8
	Dearyton	10	0	4	8
	Kramerhill	10	0	5	8
	Uhlig	5	0	4	8
	Endoaquolls	1	0	1	2

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3091:					
Glenrose ashy silt loam, 8 to 25 percent slopes	Glenrose	55	8	15	25
	Dearyton	10	8	15	25
	Glenrose, cobbly surface	10	8	15	25
	Kramerhill	10	8	15	25
	Kruse	5	8	15	25
	Larkin	5	8	15	25
	Spokane	5	15	20	25
3101:					
Green Bluff ashy silt loam, 0 to 8 percent slopes	Green Bluff	70	0	3	8
	Blinn	14	5	8	10
	Brincken, moist	10	0	4	8
	Lakespring	5	0	4	8
	Hoodoo	1	0	1	3
3102:					
Green Bluff ashy silt loam, 8 to 15 percent slopes	Green Bluff	70	8	12	15
	Bobbitt	10	8	12	15
	Brincken, moist	5	8	12	15
	Klickson	5	8	12	15
	Lakespring	5	8	12	15
	Hoodoo	3	0	1	3
	Rock outcrop	2			
3110:					
Fourmound-Stutler complex, 0 to 8 percent slopes	Fourmound	45	0	4	8
	Stutler	40	0	2	8
	Hardesty	5	0	2	3
	Seaboldt, warm	5	0	4	8
	Rockly	3	0	3	8
	Cocolalla	2	0	1	2
3112:					
Stutler gravelly ashy loam, 0 to 15 percent slopes, extremely bouldery surface	Stutler, extremely bouldery surface	70	0	3	15
	Rockly	8	0	3	15
	Northstar	7	3	8	20
	Cocolalla	5	0	1	2
	Rock outcrop	5	0	15	25
	Springdale	5	0	3	8
3113:					
Stutler-Springdale complex, 3 to 15 percent slopes	Stutler	55	3	4	15
	Springdale	30	3	4	15
	Hardesty	5	0	2	3
	Northstar	5	3	10	20
	Rock outcrop	5	3	15	25
3114:					
Rockly-Fourmound complex, 0 to 15 percent slopes	Rockly	55	0	3	8
	Fourmound	25	0	5	15
	Northstar	8	3	10	20
	Rock outcrop	7	0	15	20
	Cocolalla	4	0	1	2
	Water	1			

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3115:					
Northstar-Rock outcrop complex, 3 to 15 percent slopes	Northstar	50	3	5	15
	Rock outcrop	25	3	5	15
	Hardesty	5	0	2	3
	Rockly	5	3	4	15
	Rubble land	5	3	10	25
	Cocolalla	4	0	1	2
	Stutler	4	3	8	15
	Klickson	2	3	12	15
3116:					
Northstar-Rockly complex, 0 to 8 percent slopes	Northstar	45	0	4	8
	Rockly	45	0	3	8
	Fourmound	4	0	3	8
	Rock outcrop	3	0	4	8
	Cocolalla	2	0	1	2
	Speigle	1	0	4	8
3117:					
Northstar-Rock outcrop-Rockly complex, 0 to 15 percent slopes	Northstar	25	0	4	15
	Rock outcrop	25	0	5	15
	Rockly	25	0	3	15
	Fourmound	10	0	3	8
	Cocolalla	5	0	1	2
	Rubble land	5	3	10	30
	Speigle	5	3	10	30
3118:					
Rockly-Cocolalla complex, 0 to 8 percent slopes	Rockly	40	0	3	8
	Cocolalla	35	0	1	2
	Fourmound	10	0	3	8
	Northstar	5	3	5	20
	Rock outcrop	5	0	5	15
	Water	5			
3120:					
Marble loamy sand, 0 to 8 percent slopes	Marble	80	0	4	8
	Hagen	10	0	5	8
	Hardesty	5	0	2	3
	Marblespring	5	0	4	8
3121:					
Marble loamy sand, 8 to 15 percent slopes	Marble	75	8	11	15
	Marblespring	10	3	8	15
	Bong	5	5	12	15
	Hagen	5	8	10	15
	Hardesty	5	0	2	3
3122:					
Marble loamy sand, 15 to 30 percent slopes	Marble	75	15	22	30
	Marblespring	10	8	15	15
	Hagen	5	15	20	25
	Hardesty	5	0	2	3
	Bong	3	15	20	30
	Elmira	2	15	20	30

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3123:					
Marble loamy sand, 30 to 55 percent slopes	Marble	75	30	40	55
	Spens	12	30	45	55
	Hagen	5	20	20	25
	Spens, cool	4	30	40	55
	Bong	3	30	30	35
	Hardesty	1	0	2	3
3126:					
Rock outcrop-Northstar complex, 15 to 30 percent slopes	Rock outcrop	40	15	25	30
	Northstar	35	15	22	30
	Speigle	10	15	22	30
	Fourmound	5	3	5	15
	Rockly	5	3	4	15
	Rubble land	5	15	25	35
3127:					
Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes	Marblespring	75	0	4	8
	Marble	10	0	4	8
	Hardesty	5	0	2	3
	Phoebe	5	0	4	8
	Spens	5	5	8	15
3130:					
Phoebe ashy sandy loam, 0 to 3 percent slopes	Phoebe	75	0	2	3
	Clayton	14	0	2	3
	Bong	6	0	2	3
	Hardesty	5	0	2	3
3131:					
Phoebe ashy sandy loam, 3 to 8 percent slopes	Phoebe	85	3	5	8
	Bong	5	3	5	8
	Clayton	5	3	5	8
	Hardesty	5	0	2	3
3132:					
Bong, moist-Phoebe complex, 8 to 15 percent slopes	Bong, moist	45	8	12	15
	Phoebe	40	8	10	15
	Marble	10	8	12	15
	Hardesty	5	3	5	8
3133:					
Phoebe ashy sandy loam, dry, 0 to 3 percent slopes	Phoebe, dry	75	0	2	3
	Clayton	14	0	2	3
	Bong	6	0	2	3
	Hardesty	5	0	2	3
3134:					
Phoebe ashy sandy loam, dry, 3 to 8 percent slopes	Phoebe, dry	85	3	5	8
	Bong	5	3	5	8
	Clayton	5	3	5	8
	Hardesty	5	0	3	5
3135:					
Bong-Phoebe, dry, complex, 8 to 15 percent slopes	Bong	45	8	12	15
	Phoebe, dry	40	8	12	15
	Marble	10	8	12	15
	Hardesty	5	3	5	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3140: Springdale gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Springdale	70	0	4	8
	Marble	10	0	4	8
	Garrison	5	0	3	8
	Hardesty	5	0	2	3
	Opportunity	5	0	4	8
	Springdale, stony surface	5	0	4	8
3141: Springdale gravelly ashy coarse sandy loam, 8 to 15 percent slopes	Springdale	60	8	11	15
	Marble	14	8	12	15
	Spens	14	15	18	20
	Garrison	5	3	8	15
	Opportunity	5	3	8	15
	Hardesty	2	0	2	3
3142: Spens very gravelly loamy coarse sand, 15 to 30 percent slopes	Spens	65	15	22	30
	Marble	14	15	20	30
	Springdale	14	8	15	15
	Bong, moist	5	15	20	30
	Hardesty	2	0	2	3
3143: Spens very gravelly loamy coarse sand, 30 to 65 percent slopes	Spens	60	30	45	65
	Bong, moist	14	15	20	35
	Marble	14	15	35	55
	Springdale	6	8	15	15
	Wapal	6	30	45	60
3144: Wapal gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Wapal	85	0	4	8
	Bonner	8	0	3	8
	Kaniksu	7	0	3	8
3145: Wapal gravelly ashy coarse sandy loam, 15 to 30 percent slopes	Wapal	65	15	22	30
	Scoap	14	15	22	30
	Springdale	11	8	15	15
	Elmira	5	15	22	30
	Klickson	5	15	22	30
3146: Scoap-Wapal complex, 30 to 60 percent slopes	Scoap	45	30	45	60
	Wapal	35	30	45	60
	Elmira	5	30	45	60
	Klickson	5	30	45	60
	Rock outcrop	5	30	45	60
	Rubble land	5	30	40	50

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3147:					
Spens very gravelly loamy coarse sand, cool, 15 to 30 percent slopes	Spens, cool	85	15	22	30
	Marble	5	15	20	30
	Springdale	5	8	12	15
	Wapal	5	15	22	30
3148:					
Spens very gravelly loamy coarse sand, cool, 30 to 65 percent slopes	Spens, cool	80	30	45	65
	Elmira	5	30	40	60
	Marble	5	30	40	55
	Spens	5	30	45	65
	Wapal	5	30	45	60
3200:					
Torboy fine gravelly ashy coarse sandy loam, 0 to 3 percent slopes	Torboy	85	0	2	3
	Colburn	5	0	1	3
	Eloika	5	0	3	3
	Scrabblers	5	0	2	3
3201:					
Torboy ashy sandy loam, 3 to 8 percent slopes	Torboy	75	3	5	8
	Eloika	10	3	4	8
	Scrabblers	10	3	5	8
	Blackprince	5	8	12	15
3202:					
Torboy-Blackprince complex, 8 to 15 percent slopes	Torboy	55	8	10	15
	Blackprince	20	15	15	20
	Eloika	10	8	8	15
	Scrabblers	10	8	10	15
	Rock outcrop	5	8	12	15
3210:					
Kaniksu ashy sandy loam, 0 to 3 percent slopes	Kaniksu	70	0	1	3
	Scrabblers	10	0	2	3
	Torboy	10	0	3	3
	Eloika	5	0	3	3
	Colburn	3	0	1	3
	Wolfeson	2	0	1	3
3211:					
Kaniksu ashy sandy loam, 3 to 8 percent slopes	Kaniksu	70	3	5	8
	Scrabblers	10	3	5	8
	Torboy	10	3	5	8
	Colburn	5	0	1	3
	Eloika	5	3	3	8
3212:					
Kaniksu, dry-Seaboldt complex, 0 to 8 percent slopes	Kaniksu, dry	50	0	3	8
	Seaboldt	30	0	5	8
	Stapaloop	10	0	4	8
	Elmira	5	3	6	8
	Kaniksu	3	0	4	8
	Rock outcrop	2	0	4	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3220:					
Stapaloop ashy fine sandy loam, 0 to 8 percent slopes------	Stapaloop	75	0	3	8
	Fan Lake	10	0	2	8
	Kaniksu, dry	5	0	4	8
	Scrabblers	5	3	5	8
	Wolfeson	5	0	1	3
3221:					
Stapaloop-Kaniksu, dry complex, 8 to 25 percent slopes-----	Stapaloop	55	8	10	25
	Kaniksu, dry	30	8	8	25
	Fan Lake	10	5	8	15
	Torboy	3	8	10	15
	Kaniksu	2	8	12	25
3222:					
Stapaloop-Seaboldt complex, 0 to 8 percent slopes----------	Stapaloop	50	0	3	8
	Seaboldt	35	0	4	8
	Kaniksu, dry	10	0	4	8
	Fan Lake	3	0	2	3
	Rock outcrop	2	0	5	8
3300:					
Scrabblers ashy fine sandy loam, 0 to 3 percent slopes-----	Scrabblers	70	0	1	3
	Eloika	10	0	3	8
	Kaniksu, dry	10	0	3	8
	Colburn	5	0	1	3
	Torboy	5	0	3	3
3301:					
Scrabblers ashy fine sandy loam, 3 to 8 percent slopes-----	Scrabblers	75	3	5	8
	Kaniksu, dry	10	3	5	8
	Colburn	5	0	1	3
	Eloika	5	3	3	8
	Elmira	3	3	6	8
	Kaniksu	2	3	3	8
3302:					
Scrabblers ashy fine sandy loam, 8 to 15 percent slopes----	Scrabblers	70	8	9	15
	Blackprince	10	15	15	20
	Torboy	10	8	10	15
	Eloika	8	3	5	8
	Eloika, moist	2	0	3	8
3303:					
Scrabblers-Torboy complex, 3 to 15 percent slopes----------	Scrabblers	60	3	9	15
	Torboy	30	3	8	15
	Kaniksu, dry	5	3	8	15
	Eloika	3	3	5	8
	Colburn	2	0	1	3
3401:					
Elmira loamy sand, 3 to 15 percent slopes-----------------	Elmira	75	3	9	15
	Hagen	10	3	7	15
	Scrabblers	10	3	5	15
	Colburn	5	0	1	3
3402:					
Elmira loamy sand, 15 to 30 percent slopes----------------	Elmira	60	15	22	30
	Hagen	14	10	15	25
	Stapaloop	11	10	15	25
	Scrabblers	10	10	12	15
	Colburn	5	0	1	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3403:					
Elmira loamy sand, 30 to 60 percent slopes	Elmira	70	30	45	60
	Hagen	14	15	20	25
	Scrabblers	11	10	12	15
	Colburn	5	0	2	3
3404:					
Elmira-Seaboldt complex, 8 to 25 percent slopes	Elmira	50	8	15	25
	Seaboldt	35	8	10	15
	Kaniksu, dry	10	8	8	25
	Marble	3	8	15	25
	Rock outcrop	2	8	20	25
3500:					
Uhlig ashy silt loam, 0 to 8 percent slopes	Uhlig	75	0	3	8
	Bong, moist	10	0	4	8
	Narcisse	10	0	2	3
	Hardesty	5	0	1	3
3501:					
Brincken, moist-Uhlig complex, 0 to 8 percent slopes	Brincken, moist	45	0	4	8
	Uhlig	30	0	3	8
	Fourmound	14	0	4	8
	Seaboldt	6	0	4	8
	Nez Perce	5	0	2	8
3502:					
Brincken, moist-Fourmound complex, 0 to 15 percent slopes	Brincken, moist	45	8	12	15
	Fourmound	40	0	8	15
	Speigle	10	8	15	20
	Bobbitt	3	8	15	15
	Rock outcrop	2	8	10	15
3503:					
Uhlig ashy silt loam, dry, 0 to 8 percent slopes	Uhlig, dry	80	0	4	8
	Bong	5	0	5	8
	Cheney	5	0	3	8
	Narcisse	5	0	2	3
	Deno	3	0	4	8
	Seaboldt, dry	2	0	4	8
3504:					
Brincken ashy silt loam, 0 to 8 percent slopes	Brincken	70	0	4	8
	Reardan	10	0	3	8
	Athena	6	0	3	8
	Cheney	5	0	3	8
	Uhlig, dry	5	0	4	8
	Tucannon	3	0	3	8
	Narcisse	1	0	2	3
3505:					
Seaboldt, warm-Brincken, moist complex, 0 to 8 percent slopes	Seaboldt, warm	60	0	4	8
	Brincken, moist	25	0	4	8
	Nez Perce	5	0	2	8
	Uhlig	5	0	3	8
	Urban land	5	0	2	4

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
3600:					
Seaboldt ashy loam, 0 to 8 percent slopes	Seaboldt	65	0	4	8
	Uhlig	10	0	3	8
	Rockly	8	0	1	8
	Brincken, moist	5	0	4	8
	Fourmound	5	0	4	8
	Phoebe	5	0	4	8
	Narcisse	2	0	2	3
3601:					
Seaboldt ashy loam, 8 to 15 percent slopes	Seaboldt	65	8	12	15
	Fourmound	10	8	8	15
	Northstar	10	8	15	15
	Uhlig	10	8	8	15
	Phoebe	5	8	10	15
4000:					
Hunters ashy silt loam, 0 to 8 percent slopes	Hunters	75	0	3	8
	Cedonia	10	0	5	8
	Peone	10	0	1	3
	Lakespring	5	0	4	8
4001:					
Cedonia ashy silt loam, 0 to 8 percent slopes	Cedonia	70	0	5	8
	Green Bluff	10	0	3	8
	Lakespring	10	0	4	8
	Hunters	5	0	3	8
	Peone	5	0	1	3
4002:					
Cedonia ashy silt loam, 8 to 25 percent slopes	Cedonia	70	8	15	25
	Lakespring	10	8	15	25
	Peone	10	0	1	3
	Green Bluff	5	8	12	25
	Hunters	5	8	12	25
4031:					
Lakespring ashy loam, 0 to 8 percent slopes	Lakespring	80	0	4	8
	Brincken, moist	5	0	4	8
	Cedonia	5	0	3	8
	Green Bluff	5	0	3	8
	Dearyton	3	0	4	8
	Speigle	2	8	8	10
4032:					
Lakespring ashy loam, 8 to 25 percent slopes	Lakespring	70	8	16	25
	Spokane	9	15	20	25
	Brincken, moist	5	8	15	25
	Dearyton	5	0	10	25
	Marble	5	5	15	25
	Speigle	5	8	19	25
	Rock outcrop	1	8	15	25
4033:					
Lakespring-Brincken, moist, complex, 8 to 25 percent slopes	Lakespring	50	8	16	25
	Brincken, moist	35	8	15	25
	Speigle	10	8	15	25
	Dearyton	3	3	10	25
	Rock outcrop	2	8	15	25

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
4040:					
Wolfeson-Fan Lake complex, 0 to 8 percent slopes	Wolfeson	60	0	3	3
	Fan Lake	25	0	5	8
	Stapaloop	10	0	3	8
	Bridgeson	5	0	1	3
4041:					
Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes	Wolfeson	85	0	3	3
	Fan Lake	10	0	3	8
	Bridgeson	3	0	1	3
	Stapaloop	2	0	3	8
4050:					
Fan Lake ashy very fine sandy loam, 0 to 8 percent slopes	Fan Lake	85	0	4	8
	Green Bluff	5	0	3	8
	Klickson	5	8	15	20
	Wolfeson	3	0	3	3
	Kronquist	2	0	2	3
4051:					
Fan Lake ashy very fine sandy loam, 8 to 25 percent slopes	Fan Lake	75	8	16	25
	Klickson	10	15	20	25
	Kruse	7	8	15	25
	Blinn, stony surface	3	15	20	30
	Kronquist	3	0	1	3
	Quinnamose	2	15	23	30
5001:					
Brickel gravelly ashy silt loam, 15 to 30 percent slopes	Brickel	75	15	20	30
	Vaywood	13	15	22	30
	Bouldercreek	5	15	22	30
	Brevco	5	15	25	30
	Rock outcrop	2	15	25	30
5023:					
Micapeak-Rock outcrop complex, 8 to 15 percent slopes	Micapeak	55	8	11	15
	Rock outcrop	20	8	12	15
	Quinnamose	10	15	15	20
	Clayton	5	3	8	15
	Lenz	5	8	15	15
	Spokane	5	8	12	15
5024:					
Micapeak-Rock outcrop complex, 15 to 30 percent slopes	Micapeak	55	15	22	30
	Rock outcrop	20	15	20	30
	Quinnamose	10	15	25	30
	Brevco	5	15	25	30
	Lenz	5	15	25	30
	Spokane	5	15	23	30
5025:					
Micapeak-Rock outcrop complex, 30 to 55 percent slopes	Micapeak	55	30	45	55
	Rock outcrop	20	30	50	55
	Quinnamose	10	30	42	55
	Brevco	5	30	42	55
	Lenz	5	30	42	55
	Spokane	5	30	42	55

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5026:					
Micapeak-Spokane complex, 15 to 30 percent slopes	Micapeak	40	15	22	30
	Spokane	30	15	22	30
	Quinnamose	10	15	25	30
	Brevco	5	15	25	30
	Clayton	5	8	15	25
	Lenz	5	15	30	30
	Rock outcrop	5	15	20	30
5027:					
Micapeak-Spokane complex, 30 to 55 percent slopes	Micapeak	40	30	45	55
	Spokane	30	30	42	55
	Brevco	10	30	42	55
	Quinnamose	10	30	42	55
	Lenz	5	30	45	60
	Rock outcrop	5	30	50	55
5037:					
Spokane-Rock outcrop complex, 30 to 55 percent slopes	Spokane	45	30	42	55
	Rock outcrop	25	30	50	55
	Lenz	10	30	45	60
	Brevco	5	30	42	55
	Kramerhill	5	15	30	40
	Micapeak	5	30	45	55
	Spens	5	30	45	55
5040:					
Spokane-Swakane complex, 3 to 15 percent slopes	Spokane	40	3	9	15
	Swakane	35	3	9	15
	Kramerhill	10	3	9	15
	Bong, moist	5	3	5	15
	Lenz	5	3	9	15
	Rock outcrop	5	3	8	15
5041:					
Spokane-Swakane complex, 15 to 30 percent slopes	Spokane	40	15	22	30
	Swakane	35	15	22	30
	Kramerhill	10	15	20	30
	Lenz	5	15	25	30
	Micapeak	5	15	22	30
	Rock outcrop	5	15	25	30
5053:					
Jacot, dry-Micapeak complex, 30 to 55 percent slopes	Jacot, dry	40	30	42	55
	Micapeak	25	30	42	55
	Hysing, dry	10	30	40	55
	Jacot	10	30	42	55
	Boulderjud, dry	8	30	42	55
	Boulderjud	5	30	42	55
	Rock outcrop	2	30	40	55
5060:					
Bouldercreek ashy silt loam, moist, 3 to 15 percent slopes	Bouldercreek, moist	65	3	8	15
	Boulderjud	10	15	15	15
	Lakestarr	10	8	10	15
	Nakarna	10	15	15	15
	Hoodoo	5	0	1	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5061:					
Nakarna-Nakarna, dry complex, 15 to 30 percent slopes	Nakarna	40	15	22	30
	Nakarna, dry	35	15	22	30
	Kruse	10	8	15	30
	Bouldercreek	5	15	22	30
	Lakestarr	5	8	20	30
	Quinnamose	5	15	23	30
5062:					
Nakarna ashy silt loam, 30 to 60 percent slopes	Nakarna	65	30	45	60
	Bouldercreek	10	30	45	60
	Kruse	10	15	30	55
	Nakarna, dry	10	30	45	60
	Quinnamose	5	30	45	55
5067:					
Quinnamose-Micapeak complex, 15 to 30 percent slopes	Quinnamose	40	15	23	30
	Micapeak	30	15	23	30
	Blackprince	10	15	25	30
	Jacot, dry	10	15	22	30
	Kruse	10	8	15	30
5068:					
Quinnamose-Micapeak complex, 30 to 55 percent slopes	Quinnamose	45	30	42	55
	Micapeak	35	30	42	55
	Blackprince	10	30	45	55
	Jacot, dry	5	30	40	55
	Kruse	5	15	30	55
5070:					
Lenz-Spokane complex, 3 to 15 percent slopes	Lenz	45	3	9	15
	Spokane	35	3	9	15
	Kramerhill	5	3	9	15
	Micapeak	5	8	11	15
	Swakane	5	3	10	15
	Skalan	3	8	15	15
	Rock outcrop	2	3	9	15
5071:					
Lenz-Spokane complex, 15 to 30 percent slopes	Lenz	45	15	22	30
	Spokane	30	15	22	30
	Brevco	8	15	22	30
	Kramerhill	5	15	20	30
	Micapeak	5	15	22	30
	Swakane	5	15	22	30
	Rock outcrop	2	15	22	30
5072:					
Lenz-Rock outcrop complex, 3 to 15 percent slopes	Lenz	40	3	9	15
	Rock outcrop	25	3	9	15
	Swakane	14	3	10	15
	Spokane	10	3	9	15
	Clayton	5	3	5	15
	Micapeak	5	8	11	15
	Hardesty	1	0	2	3
5073:					
Lenz-Rock outcrop complex, 15 to 30 percent slopes	Lenz	50	15	22	30
	Rock outcrop	20	15	22	30
	Swakane	14	15	22	30
	Spokane	10	15	22	30
	Micapeak	6	15	22	30

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5074:					
Lenz-Rock outcrop complex, 30 to 60 percent slopes	Lenz	45	30	45	60
	Rock outcrop	25	30	45	60
	Spokane	10	30	45	60
	Swakane	10	30	45	60
	Brevco	5	30	45	60
	Micapeak	5	30	45	60
5080:					
Vaywood medial silt loam, 15 to 30 percent slopes	Vaywood	75	15	20	30
	Vay	10	5	25	30
	Brevco	5	15	25	30
	Brickel	5	15	20	30
	Rock outcrop	5	5	20	30
5081:					
Vaywood medial silt loam, 30 to 60 percent slopes	Vaywood	70	30	45	60
	Bouldercreek	10	30	45	60
	Vay	10	30	45	60
	Brickel	5	15	25	30
	Rock outcrop	5	15	40	60
5090:					
Brevco-Ardtoo complex, 3 to 15 percent slopes	Brevco	50	3	9	15
	Ardtoo	25	3	9	15
	Blackprince	10	15	15	20
	Kellerbutte	10	15	15	20
	Rock outcrop	5	3	10	15
5091:					
Brevco gravelly ashy sandy loam, 15 to 30 percent slopes	Brevco	70	15	22	30
	Ardtoo	10	15	22	30
	Blackprince	8	15	25	30
	Kellerbutte	5	15	20	30
	Quinnamose	5	15	23	30
	Rock outcrop	2	10	25	30
5092:					
Brevco-Rock outcrop complex, 30 to 60 percent slopes	Brevco	60	30	45	60
	Rock outcrop	15	30	40	60
	Ardtoo	10	30	45	60
	Blackprince	10	30	45	60
	Quinnamose	5	30	45	60
5093:					
Blackprince-Ardtoo complex, 15 to 30 percent slopes	Blackprince	40	15	22	30
	Ardtoo	35	15	22	30
	Brevco	10	15	22	30
	Boulderjud, dry	5	15	22	30
	Boulderjud	5	15	22	30
	Rock outcrop	5	10	25	30
5094:					
Blackprince-Ardtoo complex, 30 to 60 percent slopes	Blackprince	40	30	45	60
	Ardtoo	35	30	45	60
	Boulderjud, dry	10	30	45	60
	Boulderjud	5	30	45	60
	Brevco	5	30	45	60
	Rock outcrop	5	30	40	60

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5102:					
Boulderjud ashy silt loam, 15 to 30 percent slopes	Boulderjud	65	15	23	30
	Boulderjud, dry	10	15	20	30
	Jacot	10	8	20	30
	Ardtoo	5	15	25	30
	Bouldercreek	5	10	22	30
	Rock outcrop	5	15	25	30
5103:					
Boulderjud ashy silt loam, 30 to 60 percent slopes	Boulderjud	65	30	45	60
	Boulderjud, dry	10	30	45	60
	Jacot	10	15	35	55
	Ardtoo	5	30	45	60
	Bouldercreek	5	30	45	60
	Rock outcrop	5	30	45	60
5104:					
Boulderjud ashy silt loam, dry, 15 to 30 percent slopes	Boulderjud, dry	60	15	22	30
	Ardtoo	10	15	25	30
	Boulderjud	10	15	23	30
	Jacot, dry	10	8	20	30
	Blackprince	5	15	25	30
	Rock outcrop	5	15	25	30
5105:					
Boulderjud ashy silt loam, dry, 30 to 60 percent slopes	Boulderjud, dry	55	30	45	60
	Ardtoo	10	30	45	60
	Boulderjud	10	30	45	60
	Jacot, dry	10	15	35	55
	Blackprince	5	30	45	60
	Bouldercreek	5	30	45	60
	Rock outcrop	5	30	45	60
5110:					
Bouldercreek ashy silt loam, 15 to 30 percent slopes	Bouldercreek	80	15	22	30
	Boulderjud	10	15	23	30
	Kellerbutte	5	15	23	30
	Rock outcrop	5	15	25	30
5111:					
Bouldercreek ashy silt loam, 30 to 60 percent slopes	Bouldercreek	75	30	45	60
	Nakarna	10	15	40	60
	Boulderjud	5	30	45	60
	Kellerbutte	5	30	45	60
	Rock outcrop	5	30	45	60
5112:					
Bouldercreek ashy silt loam, dry, 15 to 30 percent slopes	Bouldercreek, dry	70	15	22	30
	Bouldercreek	10	15	22	30
	Brevco	5	8	20	30
	Jacot	5	15	22	30
	Kellerbutte	5	15	23	30
	Rock outcrop	5	15	25	30

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5113:					
Bouldercreek, dry-Kellerbutte complex, 30 to 60 percent slopes	Bouldercreek, dry	40	30	45	60
	Kellerbutte	35	30	45	60
	Bouldercreek	10	30	45	60
	Brevco	5	15	45	60
	Jacot	5	30	40	55
	Rock outcrop	5	30	45	60
5114:					
Bouldercreek-Rock outcrop-Bouldercreek, dry complex, 30 to 70 percent slopes	Bouldercreek	40	30	50	70
	Rock outcrop	25	30	45	70
	Bouldercreek, dry	20	30	50	70
	Brevco	5	30	45	60
	Jacot	5	30	40	55
	Kellerbutte	5	30	45	60
5120:					
Kellerbutte-Boulderjud complex, 15 to 30 percent slopes	Kellerbutte	40	15	23	30
	Boulderjud	30	15	23	30
	Jacot	10	15	20	30
	Micapeak	10	8	22	30
	Kruse	5	8	15	30
	Nakarna	3	15	22	30
	Brevco	2	15	25	30
5121:					
Kellerbutte-Brevco complex, 15 to 30 percent slopes	Kellerbutte	45	15	22	30
	Brevco	30	15	25	30
	Ardtoo	13	8	22	30
	Boulderjud	10	15	23	30
	Rock outcrop	2	15	22	30
5122:					
Kellerbutte-Brevco complex, 30 to 60 percent slopes	Kellerbutte	40	30	45	60
	Brevco	35	30	45	60
	Ardtoo	10	30	45	60
	Boulderjud	10	30	45	60
	Rock outcrop	5	30	45	60
5123:					
Kellerbutte-Boulderjud, dry, complex, 30 to 60 percent slopes	Kellerbutte	40	30	45	60
	Boulderjud, dry	35	30	45	60
	Blackprince	10	30	45	60
	Ardtoo	5	30	45	60
	Boulderjud	5	30	45	60
	Jacot	5	15	40	55
5130:					
Brodeer ashy silt loam, 3 to 15 percent slopes	Brodeer	70	3	9	15
	Jacot	10	3	9	15
	Jacot, dry	10	3	9	15
	Kruse	5	8	12	15
	Lakestarr	5	3	8	15

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5140:					
Jacot-Hysing complex, dry, 3 to 15 percent slopes	Jacot, dry	50	3	9	15
	Hysing, dry	25	3	9	15
	Brodeer	10	3	9	15
	Jacot	10	3	9	15
	Kruse	5	8	12	15
5141:					
Jacot-Hysing complex, 15 to 30 percent slopes	Jacot	50	15	22	30
	Hysing	25	15	22	30
	Boulderjud	10	15	23	30
	Jacot, dry	10	15	25	30
	Brodeer	5	5	10	15
5142:					
Jacot-Hysing complex, 30 to 55 percent slopes	Jacot	50	30	42	55
	Hysing	25	30	42	55
	Boulderjud	10	30	45	60
	Jacot, dry	10	30	42	55
	Hysing, dry	5	30	42	55
5143:					
Jacot-Hysing complex, dry, 15 to 30 percent slopes	Jacot, dry	50	15	22	30
	Hysing, dry	25	15	22	30
	Boulderjud	10	15	23	30
	Jacot	10	15	22	30
	Boulderjud, dry	5	15	22	30
5144:					
Jacot-Hysing complex, dry, 30 to 55 percent slopes	Jacot, dry	45	30	42	55
	Hysing, dry	25	30	42	55
	Boulderjud	10	30	42	55
	Boulderjud, dry	10	30	42	55
	Jacot	10	30	42	55
5211:					
Kruse ashy silt loam, 8 to 15 percent slopes	Kruse	75	8	12	15
	Keeler, dry	10	8	15	15
	Micapeak	10	8	11	15
	Kramerhill	5	3	9	15
5212:					
Kruse ashy silt loam, 15 to 30 percent slopes	Kruse	70	15	22	30
	Keeler	10	15	22	30
	Micapeak	10	15	22	30
	Quinnamose	10	15	23	30
5213:					
Kruse ashy silt loam, 30 to 55 percent slopes	Kruse	65	30	42	55
	Keeler, dry	10	30	42	55
	Micapeak	10	30	45	60
	Quinnamose	10	30	45	60
	Boulderjud	5	30	45	60
5310:					
Kramerhill ashy loam, 3 to 15 percent slopes	Kramerhill	70	3	9	15
	Spokane	10	3	9	15
	Swakane	10	3	9	15
	Clayton	5	0	3	15
	Lenz	5	3	9	15

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5313:					
Kramerhill-Spokane complex, 8 to 25 percent slopes	Kramerhill	45	8	17	25
	Spokane	30	8	17	25
	Skalan	10	8	15	25
	Lenz	5	8	20	25
	Clayton	3	0	8	25
	Micapeak	3	8	15	25
	Kruse	2	8	12	25
	Rock outcrop	2	8	20	25
5314:					
Spokane-Kramerhill complex, 25 to 40 percent slopes	Spokane	40	25	33	40
	Kramerhill	35	25	30	40
	Lenz	10	25	35	40
	Skalan	10	25	35	40
	Rock outcrop	3	25	30	40
	Micapeak	2	25	30	40
5321:					
Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes	Kramerhill	40	8	15	25
	Uhlig	25	8	10	25
	Skalan	15	8	15	25
	Glenrose	10	0	8	25
	Bong, moist	5	3	8	25
	Endoaquolls, deep	5	8	10	25
5322:					
Kramerhill-Skalan complex, 15 to 40 percent slopes	Kramerhill	55	15	25	40
	Skalan	20	15	30	40
	Spokane	10	15	30	40
	Uhlig	10	8	10	25
	Endoaquolls, deep	3	15	25	30
	Rock outcrop	2	15	25	40
5412:					
Keeler fine gravelly ashy loam, 8 to 15 percent slopes	Keeler	75	8	12	15
	Kruse	10	8	12	15
	Micapeak	8	8	11	15
	Santa	3	8	10	15
	Kronquist	2	0	2	3
	Lakestarr	2	8	8	15
5413:					
Keeler-Kruse complex, 15 to 30 percent slopes	Keeler	45	15	23	30
	Kruse	40	15	22	30
	Bouldercreek, dry	5	15	22	30
	Lakestarr	5	8	20	30
	Micapeak	5	15	25	30
5414:					
Keeler-Kruse complex, 30 to 60 percent slopes	Keeler	40	30	40	60
	Kruse	35	30	45	60
	Lakestarr	10	15	20	30
	Micapeak	10	30	45	60
	Bouldercreek	5	30	45	60

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
5512:					
Santa ashy silt loam, 8 to 15 percent slopes	Santa	80	8	10	15
	Cavendish	5	15	25	40
	Crumarine	5	0	2	3
	Reggear	5	6	10	15
	Santa, dry	5	8	10	25
5513:					
Santa ashy silt loam, 15 to 35 percent slopes	Santa	85	15	16	35
	Kruse	10	15	25	35
	Taney	5	8	12	35
5602:					
Lakestarr-Santa complex, 8 to 15 percent slopes	Lakestarr	40	8	12	15
	Santa	30	8	10	15
	Keeler	10	8	12	15
	Kruse	10	8	12	15
	Lakestarr, dry	5	8	10	15
	Fluvaquents, frigid	3	0	1	3
	Lovell	2	0	1	2
5603:					
Lakestarr-Santa complex, 15 to 30 percent slopes	Lakestarr	40	15	22	30
	Santa	25	15	20	30
	Keeler	10	15	23	30
	Kruse	10	15	23	30
	Bouldercreek	5	15	25	30
	Lakestarr, dry	5	15	20	30
	Taney	5	8	12	20
6001:					
Athena silt loam, 0 to 8 percent slopes	Athena	85	0	3	8
	Broadax	5	0	4	8
	Lance	5	8	8	15
	Mondovi	3	0	1	8
	Caldwell	1	0	1	3
	Narcisse	1	0	2	3
6002:					
Athena silt loam, 8 to 15 percent slopes	Athena	70	8	12	15
	Lance	10	8	12	15
	Reardan	10	3	8	15
	Hanning	5	8	11	15
	Caldwell	2	0	1	3
	Narcisse	2	0	2	3
	Mondovi	1	0	1	8
6003:					
Athena-Lance complex, 15 to 30 percent slopes	Athena	55	15	20	30
	Lance	25	15	25	30
	Reardan	7	3	8	25
	Staley	7	15	22	30
	Hanning	3	15	20	30
	Caldwell	2	0	2	3
	Mondovi	1	0	2	5

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
6004:					
Athena-Lance complex, 30 to 60 percent slopes	Athena	40	30	45	60
	Lance	35	30	45	60
	Reardan	10	3	8	25
	Staley	10	30	45	60
	Hanning	3	30	45	60
	Broadax	2	30	30	30
6010:					
Freeman ashy silt loam, 0 to 8 percent slopes	Freeman	65	0	3	8
	Driscoll	10	0	3	8
	Larkin	10	0	4	8
	Carlinton, dry	5	3	5	8
	Santa	5	8	8	8
	Lovell	4	0	1	3
	Aquepts, frigid	1	0	1	3
6011:					
Freeman ashy silt loam, 8 to 15 percent slopes	Freeman	70	8	10	15
	Carlinton, dry	10	3	8	15
	Driscoll	10	3	8	15
	Larkin	5	8	10	15
	Lovell	3	0	1	3
	Endoaquolls	2	0	1	2
6012:					
Freeman ashy silt loam, 15 to 25 percent slopes	Freeman	60	15	20	25
	Carlinton, dry	10	8	15	25
	Driscoll	10	3	8	25
	Taney	10	8	12	25
	Lovell	5	0	2	3
	Santa	5	15	20	25
6021:					
Garfield-Naff complex, 8 to 35 percent slopes	Garfield	40	8	15	35
	Naff	35	8	15	35
	Athena	10	8	10	35
	Thatuna	10	3	22	30
	Staley	5	8	8	25
6031:					
Staley-Naff complex, 8 to 25 percent slopes	Staley	60	8	17	25
	Naff	25	8	15	25
	Lance	7	15	20	25
	Broadax	5	8	15	25
	Garfield	3	3	8	25
6040:					
Larkin silt loam, 0 to 8 percent slopes	Larkin	70	0	4	8
	Freeman	13	0	3	10
	Driscoll	5	0	4	8
	Glenrose	5	0	5	10
	Southwick	5	3	5	8
	Caldwell	2	0	1	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
6041:					
Larkin-Southwick complex, 8 to 15 percent slopes	Larkin	65	8	11	15
	Southwick	15	8	11	15
	Freeman	10	8	11	15
	Caldwell	3	0	1	3
	Driscoll	3	3	3	15
	Endoaquolls	2	0	1	2
	Glenrose	2	8	12	15
6042:					
Larkin-Southwick complex, 15 to 25 percent slopes	Larkin	60	15	22	25
	Southwick	20	15	22	25
	Driscoll	5	3	3	25
	Freeman	5	15	20	25
	Gibbs	4	3	9	15
	Glenrose	4	15	22	30
	Caldwell	2	0	1	3
6043:					
Larkin-Driscoll complex, 0 to 8 percent slopes	Larkin	50	0	4	8
	Driscoll	35	0	3	8
	Southwick	7	0	4	8
	Caldwell	3	0	1	3
	Freeman	3	0	3	10
	Glenrose	2	0	5	10
6045:					
Southwick-Larkin complex, 15 to 25 percent slopes	Southwick	70	15	22	25
	Larkin	20	15	22	25
	Driscoll	5	3	3	25
	Freeman	2	15	20	25
	Glenrose	2	15	22	30
	Caldwell	1	0	1	3
6050:					
Tilma-Latah complex, 0 to 8 percent slopes	Tilma	50	3	3	8
	Latah	30	0	1	3
	Caldwell	10	0	1	3
	Thatuna	5	3	6	8
	Naff	3	3	6	8
	Cald	2	0	1	2
6061:					
Naff silt loam, 0 to 8 percent slopes	Naff	80	0	4	8
	Staley	5	8	9	10
	Thatuna	5	3	3	8
	Broadax	3	0	4	8
	Garfield	3	3	3	8
	Caldwell	2	0	1	3
	Glenrose	2	0	5	10
6062:					
Naff-Thatuna complex, 8 to 25 percent slopes	Naff	55	8	15	25
	Thatuna	25	8	15	25
	Garfield	10	3	5	25
	Athena	3	8	10	25
	Staley	3	8	10	25
	Cald	2	0	1	2
	Caldwell	2	0	2	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
6064:					
Naff silt loam, 8 to 15 percent slopes	Naff	75	8	11	15
	Athena	5	8	10	15
	Garfield	5	3	5	15
	Staley	5	8	10	15
	Thatuna	5	8	11	15
	Caldwell	3	0	2	3
	Cald	2	0	1	2
6067:					
Naff-Garfield complex, 3 to 15 percent slopes	Naff	60	3	9	15
	Garfield	20	3	5	15
	Thatuna	7	3	10	25
	Athena	5	3	10	15
	Caldwell	4	0	2	3
	Cald	2	0	1	2
	Staley	2	8	10	15
6068:					
Naff-Garfield complex, 15 to 25 percent slopes	Naff	50	15	20	25
	Garfield	30	15	20	25
	Thatuna	8	15	20	25
	Athena	5	8	10	25
	Caldwell	4	0	2	3
	Staley	3	8	8	25
6072:					
Hanning silt loam, 8 to 15 percent slopes	Hanning	80	8	11	15
	Athena	10	8	10	15
	Lance	5	15	15	20
	Reardan	5	3	3	15
6073:					
Hanning silt loam, 15 to 30 percent slopes	Hanning	75	15	22	30
	Lance	10	15	22	30
	Athena	5	8	20	30
	Mondovi	5	0	1	8
	Reardan	5	3	5	25
6074:					
Hanning silt loam, 30 to 60 percent slopes	Hanning	85	30	45	60
	Athena	5	30	45	60
	Lance	5	30	45	60
	Reardan	5	3	5	25
6080:					
Nez Perce ashy silt loam, 0 to 8 percent slopes	Nez Perce	85	0	4	8
	Brincken, moist	10	0	4	8
	Lakespring	3	0	4	8
	Uhlig	2	0	3	8
6093:					
Reardan silt loam, 0 to 8 percent slopes	Reardan	80	0	3	8
	Athena	5	0	0	8
	Broadax	5	0	4	8
	Lance	5	8	8	8
	Hanning	3	0	4	8
	Caldwell	2	0	1	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
6094:					
Reardan silt loam, 8 to 15 percent slopes	Reardan	75	8	10	15
	Hanning	10	3	10	15
	Broadax	5	3	8	15
	Lance	5	8	12	15
	Caldwell	3	0	1	3
	Athena	2	3	8	15
6096:					
Broadax-Reardan silt loams, 3 to 25 percent slopes	Broadax	45	3	15	25
	Reardan	40	3	8	25
	Lance	6	8	12	25
	Athena	3	3	15	25
	Caldwell	3	0	1	3
	Hanning	3	3	15	25
6110:					
Broadax silt loam, 0 to 8 percent slopes	Broadax	80	0	4	8
	Athena	6	0	0	8
	Lance	5	8	8	8
	Reardan	5	0	3	8
	Caldwell	2	0	1	3
	Hanning	2	0	4	8
6111:					
Broadax silt loam, 8 to 15 percent slopes	Broadax	75	8	11	15
	Athena	6	8	11	15
	Reardan	6	3	5	15
	Lance	5	8	10	15
	Caldwell	3	0	1	3
	Naff	3	8	10	15
	Hanning	2	8	10	15
6112:					
Broadax silt loam, 15 to 30 percent slopes	Broadax	70	15	22	30
	Athena	10	15	22	30
	Lance	10	15	22	30
	Reardan	5	3	5	25
	Naff	3	15	20	30
	Caldwell	2	0	2	3
6130:					
Thatuna-Naff complex, 8 to 15 percent slopes	Thatuna	55	8	11	15
	Naff	30	8	11	15
	Athena	8	8	10	15
	Garfield	5	3	3	15
	Caldwell	2	0	1	3
6131:					
Thatuna-Naff complex, 15 to 30 percent slopes	Thatuna	50	15	22	30
	Naff	30	15	22	30
	Athena	10	15	20	30
	Garfield	5	3	5	30
	Caldwell	3	0	1	3
	Cald	2	0	1	2
6140:					
Driscoll silt loam, 0 to 8 percent slopes	Driscoll	70	0	3	8
	Larkin	10	0	4	8
	Southwick	10	8	8	8
	Bobbitt	5	0	8	12
	Gibbs	5	0	4	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
6141:					
Driscoll-Larkin complex, 8 to 15 percent slopes	Driscoll	45	8	8	15
	Larkin	30	8	11	15
	Southwick	10	8	10	15
	Cald	5	0	1	2
	Glenrose	5	8	12	15
	Latah	5	0	1	3
6200:					
Morical ashy silt loam, 0 to 15 percent slopes	Morical	80	0	5	15
	Glenrose	5	0	8	15
	Kramerhill	5	3	9	15
	Reardan	5	0	5	15
	Swakane	3	3	10	20
	Athena	2	0	5	15
6201:					
Morical ashy silt loam, 15 to 30 percent slopes	Morical	75	15	22	30
	Athena	10	15	22	30
	Dearyton	5	15	22	30
	Glenrose	5	15	22	30
	Kramerhill	5	15	22	30
7090:					
Urban land-Lenz, disturbed complex, 3 to 15 percent slopes	Urban land	70	3	5	15
	Lenz, disturbed	20	3	9	15
	Spokane, disturbed	5	3	10	15
	Swakane, disturbed	3	3	9	15
	Rock outcrop	2	3	8	15
7091:					
Urban land-Lenz, disturbed complex, 15 to 30 percent slopes	Urban land	70	15	20	30
	Lenz, disturbed	20	15	23	30
	Spokane, disturbed	5	15	23	30
	Swakane, disturbed	3	15	20	30
	Rock outcrop	2	15	20	30
7101:					
Pits-Dumps complex	Pits	60			
	Dumps	40			
7102:					
Riverwash	Riverwash	100	0	2	3
7103:					
Xerolls silt loam, warm, mass wasted, 8 to 25 percent slopes	Xerolls, warm, mass wasted	70	8	16	25
	Bobbitt	6	8	15	25
	Brincken, moist, mass wasted	6	8	15	25
	Dearyton	6	8	15	25
	Lakespring	5	8	15	25
	Speigle, mass wasted	4	8	15	25
	Rock outcrop	3	8	15	25

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7104:					
Xerolls silt loam, cool, mass wasted, 8 to 25 percent slopes	Xerolls, cool, mass wasted	70	8	16	25
	Fan Lake	7	0	5	8
	Klickson, mass wasted	7	8	15	25
	Lakespring	5	8	15	25
	Green Bluff	3	0	3	8
	Blinn, stony surface	2	15	20	30
	Elmira	2	8	15	25
	Kronquist	2	0	1	2
	Rock outcrop	2	8	15	25
7105:					
Urban land, gravelly substratum, 0 to 15 percent slopes	Urban land, gravelly substratum	95	0	3	15
	Opportunity, disturbed	3	0	5	15
	Marble, disturbed	2	0	5	15
7106:					
Urban land, sandy substratum, 0 to 15 percent slopes	Urban land, gravelly substratum	95	0	7	15
	Marble, disturbed	3	0	7	15
	Marblespring, disturbed	2	0	7	15
7107:					
Urban land, basalt bedrock substratum, 0 to 15 percent slopes	Urban land, basalt bedrock substratum	95	0	5	15
	Northstar, disturbed	3	0	7	15
	Rock outcrop	2	0	8	15
7110:					
Urban land-Opportunity, disturbed complex, 0 to 3 percent slopes	Urban land	60	0	1	3
	Opportunity, disturbed	35	0	1	3
	Bong, moist, disturbed	1	0	2	3
	Garrison, disturbed	1	0	2	3
	Hardesty, disturbed	1	0	1	3
	Marblespring, disturbed	1	0	2	3
	Springdale, disturbed	1	0	2	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7111:					
Urban land-Opportunity, disturbed complex, 3 to 8 percent slopes	Urban land	60	3	5	8
	Opportunity, disturbed	35	3	5	8
	Bong, moist, disturbed	1	3	5	8
	Garrison, disturbed	1	3	5	8
	Hardesty, disturbed	1	0	1	3
	Marblespring, disturbed	1	3	5	8
	Springdale, disturbed	1	3	5	8
7112:					
Urban land-Opportunity, disturbed complex, 8 to 15 percent slopes	Urban land	60	8	10	15
	Opportunity, disturbed	35	8	10	15
	Bong, moist, disturbed	1	8	10	15
	Garrison, disturbed	1	8	10	15
	Hardesty, disturbed	1	0	1	3
	Marblespring, disturbed	1	8	10	15
	Springdale, disturbed	1	8	10	15
7115:					
Urban land-Marblespring, disturbed complex, 0 to 3 percent slopes	Urban land	70	0	1	3
	Marblespring, disturbed	26	0	2	3
	Marble, disturbed	1	0	3	3
	Opportunity, disturbed	1	0	1	3
	Phoebe, disturbed	1	0	2	3
	Springdale, disturbed	1	0	2	3
7116:					
Urban land-Marblespring, disturbed complex, 3 to 8 percent slopes	Urban land	60	3	4	8
	Marblespring, disturbed	36	3	5	8
	Marble, disturbed	1	3	5	8
	Opportunity, disturbed	1	3	5	8
	Phoebe, disturbed	1	3	5	8
	Springdale, disturbed	1	3	5	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7117:					
Urban land-Marblespring, disturbed complex, 8 to 15 percent slopes	Urban land	60	8	8	15
	Marblespring, disturbed	36	8	11	15
	Marble, disturbed	1	8	11	15
	Opportunity, disturbed	1	8	11	15
	Phoebe, disturbed	1	8	11	15
	Springdale, disturbed	1	8	11	15
7120:					
Urban land-Marble, disturbed complex, 0 to 3 percent slopes	Urban land	60	0	1	3
	Marble, disturbed	35	0	3	3
	Marblespring, disturbed	3	0	2	3
	Hardesty, disturbed	2	0	1	3
7121:					
Urban land-Marble, disturbed complex, 3 to 8 percent slopes	Urban land	60	3	3	8
	Marble, disturbed	35	3	5	8
	Hardesty, disturbed	2	0	1	3
	Hagen, disturbed	1	3	5	8
	Marblespring, disturbed	1	3	5	8
	Phoebe, disturbed	1	3	5	8
7122:					
Urban land-Marble, disturbed complex, 8 to 15 percent slopes	Urban land	60	8	8	15
	Marble, disturbed	35	8	12	15
	Bong, moist, disturbed	1	8	10	15
	Hardesty, disturbed	1	0	1	3
	Lakespring, disturbed	1	8	10	15
	Marblespring, disturbed	1	8	12	15
	Rock outcrop	1	8	10	15

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7123:					
Urban land-Marble, disturbed complex, 15 to 30 percent slopes	Urban land	60	15	15	30
	Marble, disturbed	35	15	22	30
	Lakespring, disturbed	2	15	20	30
	Rock outcrop	1	15	22	30
	Rubble land	1	15	22	30
	Speigle, disturbed	1	15	25	30
7130:					
Urban land-Northstar, disturbed complex, 0 to 3 percent slopes	Urban land	60	0	1	3
	Northstar, disturbed	25	0	3	3
	Rock outcrop	8	0	2	3
	Rockly, disturbed	3	0	3	3
	Springdale, disturbed	3	0	2	3
	Lakespring, disturbed	1	0	3	3
7131:					
Urban land-Northstar, disturbed complex, 3 to 8 percent slopes	Urban land	60	3	3	8
	Northstar, disturbed	25	3	5	8
	Rock outcrop	5	3	5	8
	Rockly, disturbed	5	3	5	8
	Lakespring, disturbed	3	3	5	8
	Springdale, disturbed	2	3	5	8
7132:					
Urban land-Northstar, disturbed complex, 8 to 15 percent slopes	Urban land	60	8	8	15
	Northstar, disturbed	25	8	12	15
	Rock outcrop	5	8	10	15
	Rockly, disturbed	5	8	12	15
	Seaboldt, disturbed	3	8	12	15
	Springdale, disturbed	2	8	10	15

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7134:					
Urban land-Northstar, disturbed complex, 15 to 30 percent slopes	Urban land	60	15	15	30
	Northstar, disturbed	25	15	22	30
	Rock outcrop	8	15	20	30
	Rockly, disturbed	2	3	15	15
	Speigle, disturbed	2	15	25	30
	Springdale, disturbed	2	8	12	15
	Lakespring, disturbed	1	15	20	25
7140:					
Urban land-Uhlig, disturbed complex, 0 to 8 percent slopes	Urban land	70	0	2	8
	Uhlig, disturbed	20	0	3	8
	Seaboldt, warm, disturbed	5	0	4	8
	Brincken, moist, disturbed	3	0	4	8
	Nez Perce, disturbed	2	0	3	5
7150:					
Urban land-Seaboldt, disturbed complex, 0 to 3 percent slopes	Urban land	45	0	1	3
	Seaboldt, disturbed	40	0	2	3
	Brincken, moist, disturbed	5	0	3	3
	Uhlig, disturbed	5	0	3	3
	Phoebe, disturbed	3	0	2	3
	Marble, disturbed	2	0	3	3
7151:					
Urban land-Seaboldt, disturbed complex, 3 to 8 percent slopes	Urban land	65	3	3	8
	Seaboldt, disturbed	25	3	5	8
	Brincken, moist, disturbed	5	3	5	8
	Marble, disturbed	3	3	5	8
	Phoebe, disturbed	1	3	5	8
	Uhlig, disturbed	1	3	5	8

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7152:					
Urban land-Seaboldt, disturbed complex, 8 to 15 percent slopes	Urban land	70	8	8	15
	Seaboldt, disturbed	20	8	10	15
	Rock outcrop	5	8	10	15
	Lakespring, disturbed	2	8	10	15
	Marblespring, disturbed	2	0	8	15
	Springdale, disturbed, stony surface	1	0	8	15
7163:					
Urban land-Spens, disturbed complex, 15 to 30 percent slopes	Urban land	60	15	15	30
	Spens, disturbed	35	15	22	30
	Marble, disturbed	3	15	22	30
	Springdale, disturbed	2	10	12	15
7170:					
Urban land-Springdale, disturbed complex, 0 to 3 percent slopes	Urban land	65	0	2	3
	Springdale, disturbed	30	0	2	3
	Marblespring, disturbed	2	0	2	3
	Opportunity, disturbed	2	0	2	3
	Marble, disturbed	1	0	3	3
7171:					
Urban land-Springdale, disturbed complex, 3 to 8 percent slopes	Urban land	60	3	3	8
	Springdale, disturbed	30	3	5	8
	Marblespring, disturbed	5	3	5	8
	Brincken, moist, disturbed	2	3	5	8
	Opportunity, disturbed	2	3	5	8
	Marble, disturbed	1	3	5	8
7172:					
Urban land-Springdale, disturbed complex, 8 to 15 percent slopes	Urban land	60	8	8	15
	Springdale, disturbed	35	8	10	15
	Marblespring, disturbed	3	8	10	15
	Spens, disturbed	2	15	18	20

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7177:					
Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 0 to 3 percent slopes	Urban land	45	0	2	3
	Seaboldt, warm, disturbed	25	0	2	3
	Brincken, moist, disturbed	20	0	2	3
	Nez Perce, disturbed	5	0	3	3
	Uhlig, disturbed	3	0	2	3
	Stutler, disturbed	2	0	2	3
7178:					
Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 3 to 8 percent slopes	Urban land	45	3	3	8
	Seaboldt, warm, disturbed	25	3	5	8
	Brincken, moist, disturbed	20	3	5	8
	Nez Perce, disturbed	5	0	2	3
	Uhlig, disturbed	3	3	5	8
	Stutler, disturbed	2	3	5	8
7179:					
Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 8 to 15 percent slopes	Urban land	50	8	8	15
	Seaboldt, warm, disturbed	25	8	12	15
	Brincken, moist, disturbed	20	8	12	15
	Rockly, disturbed	3	3	8	15
	Rock outcrop	2	8	10	15
7180:					
Urban land-Phoebe, disturbed complex, 0 to 3 percent slopes	Urban land	65	0	1	3
	Phoebe, disturbed	30	0	2	3
	Bong, moist, disturbed	2	0	2	3
	Hardesty, disturbed	2	0	1	3
	Marble, disturbed	1	0	3	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
7181:					
Urban land-Phoebe, disturbed complex, 3 to 8 percent slopes	Urban land	65	3	3	8
	Phoebe, disturbed	30	3	5	8
	Bong, moist, disturbed	2	3	5	8
	Hardesty, disturbed	2	0	1	3
	Marble, disturbed	1	3	5	8
7182:					
Urban land-Phoebe, disturbed complex, 8 to 15 percent slopes	Urban land	65	8	8	15
	Phoebe, disturbed	30	8	10	15
	Bong, moist, disturbed	2	8	10	15
	Lakespring, disturbed	2	8	13	15
	Marble, disturbed	1	8	10	15
7190:					
Urban land-Lakespring, disturbed complex, 0 to 3 percent slopes	Urban land	60	0	1	3
	Lakespring, disturbed	35	0	2	3
	Marble, disturbed	2	0	3	3
	Northstar, disturbed	2	0	3	3
	Rock outcrop	1	0	3	3
7191:					
Urban land-Lakespring, disturbed complex, 3 to 8 percent slopes	Urban land	60	3	3	8
	Lakespring, disturbed	35	3	5	8
	Marble, disturbed	2	3	5	8
	Northstar, disturbed	2	3	5	8
	Rock outcrop	1	3	5	8
7197:					
Urban land-Spokane, disturbed complex, 15 to 30 percent slopes	Urban land	70	15	20	30
	Spokane, disturbed	25	15	22	30
	Lenz, disturbed	2	15	23	30
	Rock outcrop	2	15	20	30
	Swakane, disturbed	1	15	22	30
7200:					
Rock outcrop-Rubble land complex, cliffs, 0 to 90 percent slopes	Rock outcrop, cliffs	60	0	45	90
	Rubble land, cliffs	40	0	30	60

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
8000:					
Pywell-Bellslake complex, 0 to 3 percent slopes	Pywell	60	0	1	2
	Bellslake	30	0	1	3
	Hoodoo	10	0	1	3
8001:					
Saltese muck, 0 to 3 percent slopes	Saltese	80	0	1	3
	Cocolalla	10	0	1	3
	Narcisse	5	0	2	3
	Water	5			
8002:					
Saltese muck, drained, 0 to 3 percent slopes	Saltese, drained	75	0	1	3
	Fluvaquentic Haplosaprists	10	0	1	3
	Peone, drained	10	0	1	3
	Endoaquolls	5	0	1	3
9124:					
Caldwell-Cald complex, 0 to 3 percent slopes	Caldwell	60	0	2	3
	Cald	25	0	1	2
	Endoaquolls	10	0	1	1
	Thatuna	3	2	3	3
	Latah	2	1	2	2
9300:					
Taney ashy silt loam, 3 to 8 percent slopes	Taney	80	3	5	8
	Carlinton, dry	10	3	5	8
	Latahco	5	1	2	3
	Setters	3	3	3	8
	Southwick	2	3	5	8
9301:					
Taney ashy silt loam, 8 to 20 percent slopes	Taney	80	8	12	20
	Carlinton, dry	10	8	15	20
	Benewah	5	10	15	20
	Setters	3	3	8	15
	Latahco	2	1	2	3
9330:					
Carlinton-Carlinton, dry, complex, 3 to 20 percent slopes	Carlinton	50	3	10	20
	Carlinton, dry	30	3	12	20
	Lovell	8	1	2	3
	Taney	8	3	12	12
	Benewah	4	10	15	20
9335:					
Carlinton ashy silt loam, dry, 8 to 25 percent slopes	Carlinton, dry	80	8	13	25
	Carlinton	8	8	12	20
	Taney	5	8	12	20
	Benewah	3	10	15	25
	Lovell	2	1	2	3
	Santa	2	8	12	15
9336:					
Carlinton, dry-Taney complex, 3 to 8 percent slopes	Carlinton, dry	55	3	5	8
	Taney	25	3	5	8
	Carlinton	10	3	5	8
	Benewah	5	5	8	8
	Santa	3	3	5	8
	Latahco	2	1	2	3

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
9340:					
Arson-Lotuspoint complex, 10 to 40 percent slopes	Arson	45	10	30	40
	Lotuspoint	35	10	30	40
	Ardenvoir	10	30	35	40
	Ardenvoir, dry	5	25	30	40
	Bechtel	3	20	30	40
	Sinkler	2	10	20	35
9341:					
Sinkler-Arson complex, 10 to 40 percent slopes	Sinkler	45	10	24	35
	Arson	40	10	30	40
	Benewah	5	10	15	20
	Sharptop	5	10	15	25
	Bechtel	3	20	30	40
	Grangemont, warm	2	10	15	25
9342:					
Sinkler, dry-Arson, dry complex, 10 to 40 percent slopes	Sinkler, dry	45	10	24	30
	Arson, dry	40	10	30	40
	Ardenvoir, dry	8	15	30	40
	McCrosket	3	15	25	35
	Lotuspoint	2	15	20	30
	Sinkler	2	10	15	25
9350:					
Southwick ashy silt loam, 3 to 8 percent slopes	Southwick	80	3	5	8
	Larkin	8	3	7	8
	Latahco	6	1	2	3
	Cald	2	0	1	2
	Driscoll	2	3	8	10
	Taney	2	3	8	8
9355:					
Southwick-Driscoll complex, 3 to 15 percent slopes	Southwick	55	3	9	15
	Driscoll	30	3	7	15
	Larkin	8	5	12	15
	Latahco	3	1	2	3
	Cald	2	0	1	2
	Garfield	2	5	12	15
9356:					
Southwick-Driscoll complex, 15 to 25 percent slopes	Southwick	55	15	18	25
	Driscoll	30	15	19	25
	Larkin	8	15	18	22
	Garfield	5	15	20	25
	Cald	2	0	1	2
9363:					
Larkin-Driscoll complex, 3 to 12 percent slopes	Larkin	55	3	6	12
	Driscoll	30	3	9	12
	Southwick	8	3	8	12
	Latahco	3	1	2	3
	Cald	2	0	1	2
	Garfield	2	3	10	12

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
9364:					
Larkin-Southwick complex, 3 to 12 percent slopes	Larkin	50	3	7	12
	Southwick	35	3	6	12
	Driscoll	8	3	9	12
	Latahco	3	1	2	3
	Cald	2	0	1	2
	Taney	2	3	8	12
9367:					
Larkin-Driscoll complex, 12 to 25 percent slopes	Larkin	55	12	21	25
	Driscoll	30	12	19	25
	Garfield	8	15	20	25
	Southwick	5	12	15	22
	Cald	2	0	1	2
9610:					
Schumacher silt loam, 5 to 25 percent slopes	Schumacher	80	5	12	25
	Tekoa	8	10	15	25
	Libertybutte	5	5	20	25
	McCrosket	5	10	22	25
	Larkin	2	5	12	20
9611:					
Schumacher-Tekoa complex, 25 to 40 percent slopes	Schumacher	45	25	30	40
	Tekoa	40	25	33	45
	Libertybutte	5	25	30	35
	McCrosket	5	25	34	40
	Cassyhill	3	25	30	40
	Arson, dry	2	25	35	40
9612:					
Libertybutte-Tekoa complex, 5 to 30 percent slopes	Libertybutte	45	5	25	30
	Tekoa	40	10	29	30
	Schumacher	10	5	12	25
	McCrosket	3	15	25	30
	Cassyhill	2	15	25	30
9613:					
Ardenvoir, dry-Lotuspoint complex, 5 to 30 percent slopes	Ardenvoir, dry	50	5	20	30
	Lotuspoint	35	5	15	30
	Arson, dry	5	15	25	35
	Cassyhill	5	15	25	30
	McCrosket	5	10	20	30
9614:					
Ardenvoir, dry-Lotuspoint complex, 30 to 65 percent slopes	Ardenvoir, dry	50	30	40	65
	Lotuspoint	35	30	40	65
	Cassyhill	5	30	35	45
	McCrosket	5	25	30	40
	Pinecreek	5	30	55	65
9617:					
Tekoa gravelly ashy silt loam, 15 to 40 percent slopes	Tekoa	80	15	28	40
	Schumacher	10	15	20	40
	Libertybutte	5	15	25	35
	Cassyhill	3	15	25	35
	Arson, dry	2	15	30	40

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
9701:					
Ardenvoir-McCrosket association, 35 to 65 percent slopes---	Ardenvoir	55	35	50	65
	McCrosket	25	35	54	65
	Lotuspoint	7	35	40	65
	Ardenvoir, dry	5	35	50	65
	Huckle, dry	5	35	45	65
	Cassyhill	3	35	45	65
9703:					
Ardenvoir, dry-Ardenvoir complex, 35 to 65 percent slopes--	Ardenvoir, dry	45	35	50	65
	Ardenvoir	40	35	50	65
	Lotuspoint	5	35	40	65
	McCrosket	5	35	43	65
	Huckle, dry	3	35	45	65
	Cassyhill	2	35	45	65
9704:					
Ardenvoir, dry-Ardenvoir complex, 15 to 35 percent slopes--	Ardenvoir, dry	45	15	25	35
	Ardenvoir	40	15	25	35
	Lotuspoint	5	15	20	35
	McCrosket	5	20	25	35
	Arson, dry	3	15	25	35
	Cassyhill	2	15	25	35
9706:					
Ardenvoir gravelly ashy silt loam, 35 to 65 percent slopes	Ardenvoir	80	35	50	65
	Ardenvoir, dry	5	35	50	65
	Huckle	5	35	45	65
	McCrosket	5	25	30	35
	Saint Maries, dry	5	35	50	65
9707:					
Huckle, dry-Ardenvoir complex, 35 to 65 percent slopes-----	Huckle, dry	50	35	45	65
	Ardenvoir	35	35	55	65
	Ahrs	5	35	50	65
	Saint Maries, dry	5	35	50	65
	Rasser	3	35	45	65
	Honeyjones, warm	2	35	50	65
9710:					
McCrosket-Ardenvoir association, 15 to 35 percent slopes---	McCrosket	50	15	24	35
	Ardenvoir	30	15	25	35
	Ardenvoir, dry	10	15	25	35
	Lotuspoint	5	15	20	35
	Arson	3	15	25	35
	Tekoa	2	15	28	35
9711:					
McCrosket-Ardenvoir association, 35 to 65 percent slopes---	McCrosket	50	35	54	65
	Ardenvoir	30	35	50	65
	Lotuspoint	8	35	40	65
	Arson	7	35	40	50
	Huckle, dry	3	35	45	65
	Tekoa	2	35	40	65

Table 5.--Component Legend--Continued

Map unit symbol and name	Component name	Pct. of map unit	Percent slope		
			Low	RV	High
9712:					
McCrosket-Tekoa association, 35 to 65 percent slopes	McCrosket	50	35	45	65
	Tekoa	30	35	40	65
	Ardenvoir	10	35	45	65
	Lotuspoint	5	35	40	65
	Cassyhill	3	35	45	65
	Rasser	2	35	40	55
9735:					
Lotuspoint stony ashy silt loam, 35 to 65 percent slopes, stony surface	Lotuspoint, stony surface	80	35	50	65
	Cassyhill	8	35	45	65
	Pinecreek	5	35	55	65
	Ardenvoir	3	35	45	65
	Rasser	2	35	40	55
	Rock outcrop	2	35	50	65
9770:					
Pinecreek gravelly ashy silt loam, 30 to 75 percent slopes	Pinecreek	80	30	50	75
	Ahrs	8	30	50	75
	Lotuspoint	5	30	40	75
	Rasser	3	30	45	75
	Cassyhill	2	30	45	75
	Rock outcrop	2	30	50	75
9775:					
Pinecreek gravelly ashy silt loam, moist, 20 to 65 percent slopes	Pinecreek, moist	80	20	40	65
	Ahrs	8	20	50	65
	Lotuspoint	5	20	40	65
	Rasser	3	15	45	55
	Honeyjones, warm	2	20	50	65
	Rock outcrop	2	20	50	65
9776:					
Cassyhill very gravelly ashy silt loam, 35 to 65 percent slopes	Cassyhill	80	35	45	65
	Lotuspoint, stony surface	10	35	50	65
	Ardenvoir, dry	5	35	50	65
	Rock outcrop	5	35	50	65
9778:					
Cassyhill-Lotuspoint complex, 5 to 30 percent slopes	Cassyhill	50	5	15	30
	Lotuspoint	35	5	15	30
	Ardenvoir, dry	5	5	25	30
	Pinecreek	5	5	20	30
	Rock outcrop	5	5	20	30
9782:					
Ardenvoir, dry-Cassyhill complex, 35 to 65 percent slopes	Ardenvoir, dry	45	35	50	65
	Cassyhill	35	35	50	65
	Lotuspoint, stony surface	10	35	50	65
	Arson, dry	5	35	40	45
	Rock outcrop	5	35	50	65
W:					
Water	Water	100			

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index

(Land capability in the “N” column is for nonirrigated conditions; those in the “I” column are for irrigated conditions. The crop productivity index is for nonirrigated wheat in major land resource area 9. Index values range from 0.00 to 1.00. The higher the value, the higher the productivity.)

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
1001--Bridgeson ashy silt loam, 0 to 3 percent slopes--	Bridgeson	5w	---	0.32
	Hoodoo	5w	---	0.26
	Wolfeson	3w	---	0.62
	Pywell	5w	---	0.05
	Endoaquolls	5w	---	0.09
1010--Caldwell-Thatuna complex, 0 to 8 percent slopes--	Caldwell	4w	---	0.68
	Thatuna	3w	---	0.98
	Cald	5w	---	0.59
	Latah	3w	---	0.66
	Mondovi	3w	---	0.96
	Endoaquolls	5w	---	0.11
1015--Caldwell silt loam, 0 to 3 percent slopes--------	Caldwell	4w	---	0.63
	Cald	5w	---	0.55
	Endoaquolls	5w	---	0.10
	Mondovi	3w	---	0.90
	Narcisse	3w	---	0.55
1020--Cocolalla ashy silt loam, 0 to 3 percent slopes--	Cocolalla	5w	---	0.39
	Hardesty	2w	---	0.72
	Northstar	7s	---	0.01
	Rockly	7s	---	0.00
	Saltese	5w	---	0.42
	Water	8	---	---
1021--Cocolalla-Hardesty complex, 0 to 3 percent slopes	Cocolalla	5w	---	0.39
	Hardesty	2w	---	0.72
	Rockly	7s	---	0.00
	Saltese	5w	---	0.42
	Northstar	7s	---	0.01
	Speigle	3s	---	0.26
	Water	8	---	---
1030--Emdent ashy silt loam, 0 to 3 percent slopes-----	Emdent	6s	---	0.21
	Hardesty	2w	---	0.72
	Cocolalla	5w	---	0.39
	Rockly	7s	---	0.00
	Saltese	5w	---	0.42
1040--Hardesty ashy silt loam, 0 to 3 percent slopes---	Hardesty	2w	---	0.77
	Narcisse	3w	---	0.59
	Bong, moist	3s	---	0.46
	Peone	5w	---	0.15
	Cocolalla	5w	---	0.42
	Northstar	7s	---	0.01
1050--Hoodoo-Kronquist complex, 0 to 3 percent slopes--	Hoodoo	5w	---	0.26
	Kronquist	5w	---	0.35
	Colburn	3w	---	0.33
	Pywell	5w	---	0.05
1070--Mondovi silt loam, 0 to 8 percent slopes---------	Mondovi	3w	---	0.92
	Caldwell	4w	---	0.65
	Athena	2e	---	0.96
	Endoaquolls	5w	---	0.10
	Narcisse	3w	---	0.57

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
1080--Narcisse silt loam, 0 to 3 percent slopes	Narcisse	3w	---	0.59
	Hardesty	2w	---	0.77
	Bong, moist	3s	---	0.46
	Kronquist	5w	---	0.35
1081--Narcisse silt loam, 3 to 8 percent slopes	Narcisse	3w	---	0.59
	Hardesty	2w	---	0.77
	Kronquist	5w	---	0.35
	Opportunity	4s	---	0.13
1090--Peone-Saltese complex, 0 to 3 percent slopes	Peone	5w	---	0.15
	Saltese	5w	---	0.26
	Endoaquolls	5w	---	0.11
	Kronquist	5w	---	0.35
	Peone, drained	3w	---	0.30
	Water	8	---	---
1091--Peone ashy silt loam, drained, 0 to 3 percent slopes	Peone, drained	3w	---	0.30
	Hardesty	2w	---	0.77
	Kronquist	5w	---	0.35
	Cedonia	2e	---	0.92
	Endoaquolls	5w	---	0.11
1092--Hoodoo ashy silt loam, 0 to 3 percent slopes	Hoodoo	5w	---	0.26
	Bellslake	5w	---	0.07
	Kronquist	5w	---	0.35
	Pywell	5w	---	0.05
	Water	8	---	---
1120--Lovell ashy silt loam, 0 to 3 percent slopes	Lovell	3w	---	0.68
	Colburn	3w	---	0.33
	Santa	3s	---	0.47
	Freeman	4w	---	0.89
	Kronquist	5w	---	0.35
1130--Colburn ashy loam, 0 to 3 percent slopes	Colburn	3w	---	0.33
	Hoodoo	5w	---	0.26
	Eloika	3c	---	0.51
	Wolfeson	3w	---	0.62
1200--Endoaquolls and Fluvaquents, 0 to 3 percent slopes	Endoaquolls	5w	---	0.09
	Fluvaquents	5w	---	0.03
	Hardesty	2w	---	0.77
	Saltese	5w	---	0.26
	Water	---	---	---
1203--Haploxerolls ashy silt loam, channeled, 0 to 8 percent slopes	Haploxerolls, channeled	3w	---	0.66
	Mondovi	3w	---	0.94
	Endoaquolls	5w	---	0.09
	Riverwash	8	---	---
	Water	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
1300--Aquepts ashy loam, frigid, 0 to 3 percent slopes	Aquepts, frigid	5w	5w	0.21
	Lovell	3w	---	0.68
	Colburn	3w	---	0.33
	Freeman	4w	---	0.89
	Kaniksu	3c	---	0.38
	Kronquist	5w	---	0.35
	Pywell	5w	---	0.05
	Water	---	---	---
2040--Klickson gravelly ashy silt loam, mass wasted, 15 to 30 percent slopes	Klickson, mass wasted	4e	---	0.37
	Blinn, stony surface	4s	---	0.20
	Green Bluff	3e	---	0.56
	Rock outcrop	8	---	---
	Xerolls, frigid, mass wasted	4e	---	0.38
	Lacy	7s	---	0.00
	Speigle	4e	---	0.26
2041--Klickson gravelly ashy silt loam, 30 to 60 percent slopes	Klickson	7e	---	0.11
	Lacy	7e	---	0.00
	Blinn, stony surface	7s	---	0.06
	Rock outcrop	8	---	---
	Xerolls, frigid, mass wasted	4e	---	0.38
2042--Rock outcrop-Klickson-Speigle complex, 60 to 80 percent slopes	Rock outcrop	8	---	---
	Klickson	7e	---	0.10
	Speigle	7e	---	0.06
	Rubble land	8	---	---
	Lacy	7e	---	0.00
2043--Klickson-Speigle complex, mass wasted, 15 to 30 percent slopes	Klickson, mass wasted	4e	---	0.37
	Speigle, mass wasted	4e	---	0.22
	Green Bluff	3e	---	0.56
	Klickson	4e	---	0.37
	Rock outcrop	8	---	---
	Spens	4e	---	0.02
	Xerolls, frigid, mass wasted	4e	---	0.38
	Fan Lake	4e	---	0.64
	Lacy	7s	---	0.00
2044--Klickson-Speigle complex, 30 to 60 percent slopes	Klickson	7e	---	0.11
	Speigle	7e	---	0.06
	Green Bluff	4e	---	0.48
	Lacy	7e	---	0.00
	Spens	7e	---	0.01
	Rock outcrop	8	---	---
	Rubble land	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
2045--Marble-Speigle complex, mass wasted, 8 to 30 percent slopes	Marble, mass wasted	4e	---	0.15
	Speigle, mass wasted	4e	---	0.23
	Spens	4e	---	0.02
	Lakespring	4e	---	0.52
	Klickson, mass wasted	4e	---	0.44
	Rock outcrop	8	---	---
2046--Klickson-Speigle-Rock outcrop complex, 30 to 60 percent slopes	Klickson	7e	---	0.11
	Speigle	7e	---	0.06
	Rock outcrop	8	---	---
	Lacy	7e	---	0.00
	Spens	7e	---	0.01
	Rubble land	8	---	---
2050--Speigle cobbly ashy loam, 15 to 30 percent slopes	Speigle	4e	---	0.21
	Spens	4e	---	0.02
	Bobbitt	4e	---	0.12
	Lacy	7s	---	0.00
	Rock outcrop	8	---	---
2051--Speigle cobbly ashy loam, 30 to 60 percent slopes	Speigle	7e	---	0.06
	Spens	7e	---	0.01
	Lacy	7e	---	0.00
	Bobbitt	7e	---	0.03
	Rubble land	8	---	---
	Rock outcrop	8	---	---
2052--Brincken, moist-Speigle complex, mass wasted, 8 to 25 percent slopes	Brincken, moist, mass wasted	4e	---	0.63
	Speigle, mass wasted	4e	---	0.26
	Gibbs	4e	---	0.59
	Lakespring	4e	---	0.53
	Klickson, mass wasted	4e	---	0.44
	Narcisse	3w	---	0.59
	Rock outcrop	8	---	---
2053--Speigle-Rock outcrop complex, 15 to 30 percent slopes	Speigle	4e	---	0.21
	Rock outcrop	8	---	---
	Bobbitt	4e	---	0.12
	Northstar	7s	---	0.01
	Lacy	7s	---	0.00
	Rubble land	8	---	---
	Spens	4e	---	0.02
2054--Speigle-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	Speigle	7e	---	0.06
	Rubble land	8	---	---
	Rock outcrop	8	---	---
	Klickson	7e	---	0.10
	Lacy	7e	---	0.00
	Spens	7e	---	0.01

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
2070--Bobbitt-Lacy complex, 0 to 8 percent slopes	Bobbitt	4s	---	0.16
	Lacy	7s	---	0.00
	Gibbs	3e	---	0.63
	Rock outcrop	8	---	---
	Hardesty	2w	---	0.77
	Lakespring	3e	---	0.58
	Stutler	3s	---	0.33
2071--Bobbitt-Speigle complex, 8 to 25 percent slopes	Bobbitt	4e	---	0.13
	Speigle	4e	---	0.23
	Gibbs	4e	---	0.53
	Lacy	7s	---	0.00
	Rock outcrop	8	---	---
2080--Gibbs ashy silt loam, 0 to 8 percent slopes	Gibbs	3e	---	0.63
	Bobbitt	4s	---	0.16
	Driscoll	3w	---	0.89
	Lacy	7s	---	0.00
	Rock outcrop	8	---	---
	Caldwell	4w	---	0.68
2081--Gibbs ashy silt loam, 8 to 15 percent slopes	Gibbs	3e	---	0.61
	Bobbitt	4s	---	0.15
	Brincken, moist	3e	---	0.66
	Driscoll	3e	---	0.87
	Speigle	3e	---	0.26
	Rock outcrop	8	---	---
	Lacy	7s	---	0.00
2085--Tucannon ashy silt loam, 0 to 8 percent slopes	Tucannon	3e	---	0.48
	Cheney	2e	---	0.64
	Cocolalla	5w	---	0.38
	Rockly	7s	---	0.00
	Uhlig, dry	2e	---	0.87
	Rock outcrop	8	---	---
2090--Rockly-Tucannon complex, 15 to 35 percent slopes	Rockly	7s	---	0.00
	Tucannon	6e	---	0.34
	Rock outcrop	8	---	---
	Rubble land	8	---	---
	Speigle	6e	---	0.18
	Uhlig, dry	4e	---	0.72
2160--Scoap-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	Scoap	7e	---	0.05
	Rubble land	8	---	---
	Rock outcrop	8	---	---
	Northstar	7e	---	0.01
	Springdale	4s	---	0.09
	Wapal	7e	---	0.01
3010--Alecanyon cobbly ashy coarse sandy loam, 15 to 40 percent slopes, very stony surface	Alecanyon, very stony surface	7s	---	0.01
	Cheney	3e	---	0.61
	Rock outcrop	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3015--Seaboldt ashy loam, dry, 0 to 8 percent slopes---	Seaboldt, dry	3e	---	0.37
	Cheney	2e	---	0.66
	Uhlig, dry	2e	---	0.89
	Brincken, moist	2e	---	0.64
	Narcisse	3w	---	0.55
	Rock outcrop	8	---	---
3020--Bong ashy sandy loam, 0 to 8 percent slopes------	Bong	3s	3e	0.45
	Marble	4s	4s	0.17
	Phoebe, dry	2e	3e	0.58
	Hardesty	2w	---	0.72
	Marblespring	4s	---	0.17
3022--Bong ashy sandy loam, moist, 0 to 8 percent slopes----------	Bong, moist	3s	3e	0.45
	Phoebe	2e	3e	0.59
	Hagen	3e	---	0.46
	Marblespring	4s	---	0.17
	Hardesty	2w	---	0.75
3024--Phoebe-Bong, moist, complex, 0 to 8 percent slopes----------	Phoebe	2e	3e	0.59
	Bong, moist	3s	3e	0.45
	Marble	4s	4s	0.18
	Hardesty	2w	---	0.75
3025--Bong ashy sandy loam, moist, 15 to 30 percent slopes----------	Bong, moist	4e	---	0.36
	Marble	4e	---	0.14
	Phoebe	3e	---	0.54
	Spens	4e	---	0.02
	Hardesty	2w	---	0.75
3026--Phoebe, dry-Bong complex, 0 to 8 percent slopes--	Phoebe, dry	2e	3e	0.58
	Bong	3s	3e	0.45
	Marble	4s	4s	0.17
	Hardesty	2w	---	0.72
3030--Bonner ashy fine sandy loam, 0 to 8 percent slopes----------	Bonner	3e	---	0.27
	Scrabblers	3s	---	0.33
	Stien, very stony surface	6s	---	0.09
	Wapal	4s	---	0.06
	Eloika	3c	---	0.51
	Colburn	3w	---	0.33
3031--Bonner-Wapal complex, 8 to 15 percent slopes-----	Bonner	3e	---	0.26
	Wapal	4s	---	0.06
	Scrabblers	3e	---	0.32
	Stien, very stony surface	6s	---	0.09
	Eloika	3e	---	0.49
3039--Alecanyon-Rockly complex, 0 to 15 percent slopes	Alecanyon	6s	---	0.04
	Rockly	7s	---	0.00
	Cheney	3e	---	0.64
	Deno	3e	---	0.68
	Rock outcrop	8	---	---
	Fourmound	2e	---	0.64
	Cocolalla	5w	---	0.38

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3040--Cheney-Alecanyon complex, 0 to 8 percent slopes	Cheney	2e	---	0.66
	Alecanyon	6s	---	0.04
	Uhlig, dry	2e	---	0.89
	Rock outcrop	8	---	---
	Rockly	7s	---	0.00
	Uhlig	2e	---	0.86
3041--Alecanyon, very stony-Cheney complex, 0 to 8 percent slopes	Alecanyon, very stony surface	7s	---	0.01
	Cheney	2e	---	0.66
	Uhlig, dry	2e	---	0.89
	Rockly	7s	---	0.00
	Rock outcrop	8	---	---
3042--Alecanyon, very stony-Cheney complex, 8 to 15 percent slopes	Alecanyon, very stony surface	7s	---	0.01
	Cheney	3e	---	0.63
	Athena	3e	---	0.90
	Rock outcrop	8	---	---
	Tucannon	3e	---	0.47
	Uhlig, dry	3e	---	0.85
3044--Cheney ashy silt loam, 0 to 8 percent slopes	Cheney	2e	---	0.66
	Uhlig, dry	2e	---	0.89
	Alecanyon	6s	---	0.04
	Cocolalla	5w	---	0.39
	Rock outcrop	8	---	---
	Seaboldt, dry	3e	---	0.37
	Uhlig	2e	---	0.86
3045--Rockly-Deno complex, 0 to 15 percent slopes	Rockly	7s	---	0.00
	Deno	3e	---	0.69
	Cocolalla	5w	---	0.39
	Rock outcrop	8	---	---
	Cheney	2e	---	0.66
	Seaboldt, dry	3e	---	0.37
3046--Cheney-Seaboldt, dry, complex, 0 to 8 percent slopes	Cheney	2e	---	0.66
	Seaboldt, dry	3e	---	0.37
	Rock outcrop	8	---	---
	Rockly	7s	---	0.00
	Uhlig, dry	2e	---	0.89
	Cocolalla	5w	---	0.39
	Fourmound	2e	---	0.65
3047--Rockly-Rock outcrop-Deno complex, 0 to 15 percent slopes	Rockly	7s	---	0.00
	Rock outcrop	8	---	---
	Deno	3e	---	0.68
	Rock outcrop, cliffs	8	---	---
	Cocolalla	5w	---	0.38
	Hardesty	2w	---	0.70
	Northstar	7s	---	0.01
	Speigle	3e	---	0.25

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3048--Rockly-Hardesty complex, 0 to 15 percent slopes--	Rockly	7s	---	0.00
	Hardesty	2w	---	0.70
	Fourmound	2e	---	0.64
	Cocolalla	5w	---	0.38
	Rock outcrop	8	---	---
	Northstar	7s	---	0.01
	Water	8	---	---
3049--Rockly-Rock outcrop-Cocolalla complex, 0 to 15 percent slopes----------	Rockly	7s	---	0.00
	Rock outcrop	8	---	---
	Cocolalla	5w	---	0.38
	Rock outcrop, cliffs	8	---	---
	Deno	3e	---	0.68
	Northstar	7s	---	0.01
	Speigle	3e	---	0.25
	Water	8	---	---
3054--Clayton ashy fine sandy loam, 0 to 8 percent slopes----------	Clayton	2e	3e	0.59
	Clayton, silty subsoil	2e	3e	0.65
	Hagen	3e	---	0.46
	Phoebe, dry	2e	3e	0.58
	Marblespring	4s	---	0.17
3055--Clayton-Hagen complex, 8 to 25 percent slopes----	Clayton	4e	---	0.57
	Hagen	4e	---	0.39
	Clayton, silty subsoil	4e	---	0.63
	Endoaquolls	5w	---	0.09
	Marblespring	4s	---	0.16
3056--Hagen ashy sandy loam, 0 to 3 percent slopes-----	Hagen	2e	---	0.46
	Bong, moist	3s	---	0.45
	Marble	4s	---	0.18
	Clayton	2s	---	0.59
	Hardesty	2w	---	0.75
	Marblespring	4s	---	0.17
3057--Hagen ashy sandy loam, 3 to 8 percent slopes-----	Hagen	3e	---	0.46
	Marble	4s	---	0.18
	Bong, moist	3s	---	0.45
	Hardesty	2w	---	0.75
	Marblespring	4s	---	0.17
3060--Dearyton ashy silt loam, 0 to 8 percent slopes---	Dearyton	6w	---	0.83
	Glenrose	2e	---	0.94
	Kramerhill	2e	---	0.61
	Bong, moist	3s	---	0.45
	Skalan	3e	---	0.31
3061--Dearyton ashy silt loam, 8 to 15 percent slopes--	Dearyton	6w	---	0.82
	Glenrose	3e	---	0.91
	Kramerhill	3e	---	0.58
	Bong, moist	3e	---	0.45
	Skalan	3e	---	0.30
	Endoaquolls	5w	---	0.09

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3062--Dearyton ashy silt loam, 15 to 30 percent slopes	Dearyton	6w	---	0.65
	Kramerhill	4e	---	0.47
	Skalan	4e	---	0.25
	Spokane	4e	---	0.11
	Rock outcrop	8	---	---
3070--Eloika ashy very fine sandy loam, 0 to 8 percent slopes	Eloika	3c	---	0.51
	Kaniksu	3c	---	0.38
	Scrabblers	3s	---	0.33
	Colburn	3w	---	0.33
	Stien, very stony surface	6s	---	0.09
	Torboy	4s	---	0.18
3071--Stien ashy silt loam, 0 to 8 percent slopes, very stony	Stien, very stony surface	6s	---	0.09
	Scrabblers	3s	---	0.33
	Wapal	4s	---	0.06
	Colburn	3w	---	0.33
	Torboy	4s	---	0.18
3072--Stien ashy silt loam, 8 to 15 percent slopes, very stony	Stien, very stony surface	6s	---	0.09
	Scrabblers	3e	---	0.32
	Wapal	4s	---	0.06
	Colburn	3w	---	0.33
	Rock outcrop	8	---	---
	Blackprince	4s	---	0.09
3073--Stien, very stony-Rock outcrop complex, 15 to 30 percent slopes	Stien, very stony surface	6s	---	0.07
	Rock outcrop	8	---	---
	Blackprince	4e	---	0.06
	Scrabblers	3e	---	0.32
	Wapal	4e	---	0.05
3074--Eloika ashy very fine sandy loam, moist, 0 to 8 percent slopes	Eloika, moist	3c	---	0.51
	Kaniksu	3c	---	0.38
	Scrabblers	3s	---	0.33
	Bonner	3e	---	0.27
	Colburn	3w	---	0.33
	Torboy	4s	---	0.18
	Fan Lake	4w	---	0.77
	Wolfeson	3w	---	0.61
3080--Opportunity very gravelly ashy loam, 0 to 3 percent slopes	Opportunity	4s	2s	0.13
	Bong, moist	3s	---	0.46
	Garrison	4s	---	0.12
	Hardesty	2w	---	0.77
	Springdale	4s	---	0.10

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3081--Opportunity very gravelly ashy loam, 3 to 8 percent slopes	Opportunity	4s	4s	0.13
	Bong, moist	3s	---	0.46
	Garrison	4s	---	0.12
	Hardesty	2w	---	0.77
	Springdale	4s	---	0.10
3082--Opportunity very gravelly ashy loam, 8 to 15 percent slopes	Opportunity	4s	4s	0.12
	Bong, moist	3e	---	0.44
	Garrison	4s	---	0.11
	Springdale	4s	---	0.10
	Hardesty	2w	---	0.77
3083--Garrison very gravelly ashy loam, 0 to 8 percent slopes	Garrison	4s	4s	0.12
	Bong, moist	3s	---	0.46
	Hardesty	2w	---	0.77
	Opportunity	4s	---	0.13
	Springdale	4s	---	0.10
3084--Garrison very gravelly ashy loam, 8 to 15 percent slopes	Garrison	4s	4s	0.11
	Bong, moist	3e	---	0.46
	Garrison, extremely stony surface	7s	---	0.06
	Opportunity	4s	---	0.12
	Springdale	4s	---	0.10
3085--Garrison very gravelly ashy loam, 15 to 30 percent slopes	Garrison	4e	---	0.09
	Opportunity	4s	---	0.12
	Springdale	4s	---	0.09
	Urban land	8	---	---
3087--Garrison very gravelly ashy loam, 0 to 8 percent slopes, extremely stony surface	Garrison, extremely stony surface	7s	7s	0.06
	Garrison	4s	---	0.12
	Bong, moist	3s	---	0.46
	Opportunity	4s	---	0.13
	Springdale	4s	---	0.10
	Urban land	8	---	---
3090--Glenrose ashy silt loam, 0 to 8 percent slopes	Glenrose	2e	---	0.94
	Larkin	2e	---	0.90
	Dearyton	6w	---	0.83
	Kramerhill	2e	---	0.61
	Uhlig	2e	---	0.90
	Endoaquolls	5w	---	0.09
3091--Glenrose ashy silt loam, 8 to 25 percent slopes	Glenrose	4e	---	0.87
	Dearyton	6w	---	0.77
	Glenrose, cobbly surface	4e	---	0.81
	Kramerhill	4e	---	0.56
	Kruse	4e	---	0.55
	Larkin	4e	---	0.83
	Spokane	4e	---	0.12

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3101--Green Bluff ashy silt loam, 0 to 8 percent slopes	Green Bluff	3c	---	0.57
	Blinn	3e	---	0.33
	Brincken, moist	2e	---	0.68
	Lakespring	3e	---	0.58
	Hoodoo	5w	---	0.26
3102--Green Bluff ashy silt loam, 8 to 15 percent slopes	Green Bluff	3e	---	0.55
	Bobbitt	4s	---	0.15
	Brincken, moist	3e	---	0.65
	Klickson	3e	---	0.45
	Lakespring	3e	---	0.55
	Hoodoo	5w	---	0.26
	Rock outcrop	8	---	---
3110--Fourmound-Stutler complex, 0 to 8 percent slopes	Fourmound	2e	---	0.67
	Stutler	3s	---	0.32
	Hardesty	2w	---	0.74
	Seaboldt, warm	3e	---	0.39
	Rockly	7s	---	0.00
	Cocolalla	5w	---	0.39
3112--Stutler gravelly ashy loam, 0 to 15 percent slopes, extremely bouldery surface	Stutler, extremely bouldery surface	7s	---	0.07
	Rockly	7s	---	0.00
	Northstar	7s	---	0.01
	Cocolalla	5w	---	0.40
	Rock outcrop	8	---	---
	Springdale	4s	---	0.06
3113--Stutler-Springdale complex, 3 to 15 percent slopes	Stutler	3e	---	0.31
	Springdale	4s	---	0.06
	Hardesty	2w	---	0.72
	Northstar	7s	---	0.01
	Rock outcrop	8	---	---
3114--Rockly-Fourmound complex, 0 to 15 percent slopes	Rockly	7s	---	0.00
	Fourmound	3e	---	0.65
	Northstar	7s	---	0.01
	Rock outcrop	8	---	---
	Cocolalla	5w	---	0.39
	Water	8	---	---
3115--Northstar-Rock outcrop complex, 3 to 15 percent slopes	Northstar	7s	---	0.01
	Rock outcrop	8	---	---
	Hardesty	2w	---	0.72
	Rockly	7s	---	0.00
	Rubble land	8	---	---
	Cocolalla	5w	---	0.39
	Stutler	3e	---	0.30
	Klickson	3e	---	0.43
3116--Northstar-Rockly complex, 0 to 8 percent slopes	Northstar	7s	---	0.01
	Rockly	7s	---	0.00
	Fourmound	2e	---	0.65
	Rock outcrop	8	---	---
	Cocolalla	5w	---	0.39
	Speigle	3s	---	0.27

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3117--Northstar-Rock outcrop-Rockly complex, 0 to 15 percent slopes	Northstar	7s	---	0.01
	Rock outcrop	8	---	---
	Rockly	7s	---	0.00
	Fourmound	2e	---	0.65
	Cocolalla	5w	---	0.39
	Rubble land	8	---	---
	Speigle	4e	---	0.26
3118--Rockly-Cocolalla complex, 0 to 8 percent slopes	Rockly	7s	---	0.00
	Cocolalla	5w	---	0.39
	Fourmound	2e	---	0.65
	Northstar	7s	---	0.01
	Rock outcrop	8	---	---
	Water	8	---	---
3120--Marble loamy sand, 0 to 8 percent slopes	Marble	4e	4e	0.18
	Hagen	3e	---	0.47
	Hardesty	2w	---	0.77
	Marblespring	4s	---	0.17
3121--Marble loamy sand, 8 to 15 percent slopes	Marble	4s	---	0.17
	Marblespring	4s	---	0.17
	Bong	3e	---	0.45
	Hagen	3e	---	0.45
	Hardesty	2w	---	0.75
3122--Marble loamy sand, 15 to 30 percent slopes	Marble	4e	---	0.14
	Marblespring	4s	---	0.16
	Hagen	4e	---	0.39
	Hardesty	2w	---	0.75
	Bong	4e	---	0.39
	Elmira	4e	---	0.13
3123--Marble loamy sand, 30 to 55 percent slopes	Marble	7e	---	0.04
	Spens	7e	---	0.01
	Hagen	4e	---	0.39
	Spens, cool	7e	---	0.01
	Bong	6e	---	0.26
	Hardesty	2w	---	0.75
3126--Rock outcrop-Northstar complex, 15 to 30 percent slopes	Rock outcrop	8	---	---
	Northstar	7s	---	0.01
	Speigle	4e	---	0.20
	Fourmound	3e	---	0.65
	Rockly	7s	---	0.00
	Rubble land	8	---	---
3127--Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes	Marblespring	4s	---	0.17
	Marble	4s	---	0.17
	Hardesty	2w	---	0.74
	Phoebe	2e	---	0.57
	Spens	4s	---	0.02
3130--Phoebe ashy sandy loam, 0 to 3 percent slopes	Phoebe	2s	---	0.59
	Clayton	2s	---	0.59
	Bong	3s	---	0.47
	Hardesty	2w	---	0.75

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3131--Phoebe ashy sandy loam, 3 to 8 percent slopes	Phoebe	2e	---	0.60
	Bong	3s	---	0.48
	Clayton	2e	---	0.60
	Hardesty	2w	---	0.77
3132--Bong, moist-Phoebe complex, 8 to 15 percent slopes	Bong, moist	3e	---	0.44
	Phoebe	3e	---	0.58
	Marble	4s	---	0.17
	Hardesty	2w	---	0.77
3133--Phoebe ashy sandy loam, dry, 0 to 3 percent slopes	Phoebe, dry	2s	---	0.57
	Clayton	2s	---	0.56
	Bong	3s	---	0.44
	Hardesty	2w	---	0.72
3134--Phoebe ashy sandy loam, dry, 3 to 8 percent slopes	Phoebe, dry	2e	---	0.58
	Bong	3s	---	0.45
	Clayton	2e	---	0.56
	Hardesty	2w	---	0.72
3135--Bong-Phoebe, dry, complex, 8 to 15 percent slopes	Bong	3e	---	0.43
	Phoebe, dry	3e	---	0.55
	Marble	4s	---	0.16
	Hardesty	2w	---	0.72
3140--Springdale gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Springdale	4s	---	0.06
	Marble	4s	---	0.17
	Garrison	4s	---	0.11
	Hardesty	2w	---	0.74
	Opportunity	4s	---	0.12
	Springdale, stony surface	4s	---	0.05
3141--Springdale gravelly ashy coarse sandy loam, 8 to 15 percent slopes	Springdale	4s	---	0.06
	Marble	4s	---	0.17
	Spens	4e	---	0.02
	Garrison	4s	---	0.11
	Opportunity	4s	---	0.12
	Hardesty	2w	---	0.74
3142--Spens very gravelly loamy coarse sand, 15 to 30 percent slopes	Spens	6s	---	0.02
	Marble	4e	---	0.15
	Springdale	4s	---	0.06
	Bong, moist	4e	---	0.37
	Hardesty	2w	---	0.74
3143--Spens very gravelly loamy coarse sand, 30 to 65 percent slopes	Spens	7e	---	0.01
	Bong, moist	6e	---	0.37
	Marble	7e	---	0.04
	Springdale	4s	---	0.06
	Wapal	7e	---	0.01
3144--Wapal gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Wapal	4s	---	0.06
	Bonner	3e	---	0.27
	Kaniksu	3c	---	0.38

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3145--Wapal gravelly ashy coarse sandy loam, 15 to 30 percent slopes	Wapal	4e	---	0.05
	Scoap	4e	---	0.18
	Springdale	4s	---	0.06
	Elmira	4e	---	0.12
	Klickson	4e	---	0.37
3146--Scoap-Wapal complex, 30 to 60 percent slopes	Scoap	7e	---	0.05
	Wapal	7e	---	0.01
	Elmira	7e	---	0.04
	Klickson	7e	---	0.11
	Rock outcrop	8	---	---
	Rubble land	8	---	---
3147--Spens very gravelly loamy coarse sand, cool, 15 to 30 percent slopes	Spens, cool	4e	---	0.02
	Marble	4e	---	0.14
	Springdale	4s	---	0.06
	Wapal	4e	---	0.04
3148--Spens very gravelly loamy coarse sand, cool, 30 to 65 percent slopes	Spens, cool	7e	---	0.01
	Elmira	7e	---	0.03
	Marble	7e	---	0.04
	Spens	7e	---	0.01
	Wapal	7e	---	0.01
3200--Torboy fine gravelly ashy coarse sandy loam, 0 to 3 percent slopes	Torboy	4e	4e	0.18
	Colburn	3w	---	0.33
	Eloika	3c	---	0.51
	Scrabblers	3s	---	0.33
3201--Torboy ashy sandy loam, 3 to 8 percent slopes	Torboy	4e	4e	0.28
	Eloika	3c	---	0.51
	Scrabblers	3s	---	0.33
	Blackprince	4s	---	0.09
3202--Torboy-Blackprince complex, 8 to 15 percent slopes	Torboy	4s	---	0.18
	Blackprince	4e	---	0.08
	Eloika	3e	---	0.50
	Scrabblers	3e	---	0.32
	Rock outcrop	8	---	---
3210--Kaniksu ashy sandy loam, 0 to 3 percent slopes	Kaniksu	4e	4e	0.38
	Scrabblers	3s	---	0.33
	Torboy	4s	---	0.18
	Eloika	3c	---	0.51
	Colburn	3w	---	0.33
	Wolfeson	3w	---	0.62
3211--Kaniksu ashy sandy loam, 3 to 8 percent slopes	Kaniksu	4e	4e	0.38
	Scrabblers	3s	---	0.33
	Torboy	4s	---	0.18
	Colburn	3w	---	0.33
	Eloika	3c	---	0.51

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3212--Kaniksu, dry-Seaboldt complex, 0 to 8 percent slopes	Kaniksu, dry	3c	---	0.43
	Seaboldt	3e	---	0.39
	Stapaloop	3c	---	0.48
	Elmira	4s	---	0.16
	Kaniksu	3c	---	0.38
	Rock outcrop	8	---	---
3220--Stapaloop ashy fine sandy loam, 0 to 8 percent slopes	Stapaloop	3c	---	0.48
	Fan Lake	4w	---	0.77
	Kaniksu, dry	3c	---	0.43
	Scrabblers	3s	---	0.33
	Wolfeson	3w	---	0.62
3221--Stapaloop-Kaniksu, dry complex, 8 to 25 percent slopes	Stapaloop	4e	---	0.47
	Kaniksu, dry	4e	---	0.43
	Fan Lake	4w	---	0.76
	Torboy	4s	---	0.18
	Kaniksu	4e	---	0.36
3222--Stapaloop-Seaboldt complex, 0 to 8 percent slopes	Stapaloop	3c	---	0.48
	Seaboldt	3e	---	0.39
	Kaniksu, dry	3c	---	0.43
	Fan Lake	4w	---	0.77
	Rock outcrop	8	---	---
3300--Scrabblers ashy fine sandy loam, 0 to 3 percent slopes	Scrabblers	3s	---	0.33
	Eloika	3c	---	0.51
	Kaniksu, dry	3c	---	0.43
	Colburn	3w	---	0.33
	Torboy	4s	---	0.18
3301--Scrabblers ashy fine sandy loam, 3 to 8 percent slopes	Scrabblers	4e	4e	0.33
	Kaniksu, dry	3c	---	0.43
	Colburn	3w	---	0.33
	Eloika	3c	---	0.51
	Elmira	4s	---	0.16
	Kaniksu	3c	---	0.38
3302--Scrabblers ashy fine sandy loam, 8 to 15 percent slopes	Scrabblers	3e	---	0.32
	Blackprince	4e	---	0.08
	Torboy	4s	---	0.18
	Eloika	3c	---	0.51
	Eloika, moist	3c	---	0.51
3303--Scrabblers-Torboy complex, 3 to 15 percent slopes	Scrabblers	3e	---	0.32
	Torboy	4s	---	0.18
	Kaniksu, dry	3e	---	0.43
	Eloika	3c	---	0.51
	Colburn	3w	---	0.33
3401--Elmira loamy sand, 3 to 15 percent slopes	Elmira	4s	---	0.15
	Hagen	3e	---	0.47
	Scrabblers	3e	---	0.33
	Colburn	3w	---	0.33

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3402--Elmira loamy sand, 15 to 30 percent slopes	Elmira	4e	---	0.12
	Hagen	4e	---	0.44
	Stapaloop	4e	---	0.45
	Scrabblers	3e	---	0.32
	Colburn	3w	---	0.33
3403--Elmira loamy sand, 30 to 60 percent slopes	Elmira	7e	---	0.04
	Hagen	4e	---	0.39
	Scrabblers	3e	---	0.32
	Colburn	3w	---	0.33
3404--Elmira-Seaboldt complex, 8 to 25 percent slopes	Elmira	4e	---	0.14
	Seaboldt	3e	---	0.37
	Kaniksu, dry	4e	---	0.43
	Marble	4e	---	0.17
	Rock outcrop	8	---	---
3500--Uhlig ashy silt loam, 0 to 8 percent slopes	Uhlig	2e	---	0.90
	Bong, moist	3s	---	0.45
	Narcisse	3w	---	0.58
	Hardesty	2w	---	0.75
3501--Brincken, moist-Uhlig complex, 0 to 8 percent slopes	Brincken, moist	2e	---	0.68
	Uhlig	2e	---	0.92
	Fourmound	2e	---	0.70
	Seaboldt	3e	---	0.39
	Nez Perce	6w	---	0.92
3502--Brincken, moist-Fourmound complex, 0 to 15 percent slopes	Brincken, moist	3e	---	0.65
	Fourmound	3e	---	0.69
	Speigle	4e	---	0.26
	Bobbitt	4s	---	0.15
	Rock outcrop	8	---	---
3503--Uhlig ashy silt loam, dry, 0 to 8 percent slopes	Uhlig, dry	2e	---	0.89
	Bong	3s	---	0.45
	Cheney	2e	---	0.66
	Narcisse	3w	---	0.57
	Deno	3e	---	0.69
	Seaboldt, dry	3e	---	0.37
3504--Brincken ashy silt loam, 0 to 8 percent slopes	Brincken	2e	---	0.66
	Reardan	3e	---	0.86
	Athena	2e	---	0.93
	Cheney	2e	---	0.66
	Uhlig, dry	2e	---	0.89
	Tucannon	3e	---	0.49
	Narcisse	3w	---	0.57
3505--Seaboldt, warm-Brincken, moist complex, 0 to 8 percent slopes	Seaboldt, warm	3e	---	0.39
	Brincken, moist	2e	---	0.67
	Nez Perce	6w	---	0.90
	Uhlig	2e	---	0.90
	Urban land	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
3600--Seaboldt ashy loam, 0 to 8 percent slopes	Seaboldt	3e	---	0.39
	Uhlig	2e	---	0.92
	Rockly	7s	---	0.00
	Brincken, moist	2e	---	0.68
	Fourmound	2e	---	0.70
	Phoebe	2e	---	0.60
	Narcisse	3w	---	0.59
3601--Seaboldt ashy loam, 8 to 15 percent slopes	Seaboldt	3e	---	0.37
	Fourmound	3e	---	0.69
	Northstar	7s	---	0.01
	Uhlig	3e	---	0.91
	Phoebe	3e	---	0.58
4000--Hunters ashy silt loam, 0 to 8 percent slopes	Hunters	2e	---	0.93
	Cedonia	2e	---	0.92
	Peone	5w	---	0.15
	Lakespring	3e	---	0.57
4001--Cedonia ashy silt loam, 0 to 8 percent slopes	Cedonia	2e	---	0.92
	Green Bluff	3c	---	0.57
	Lakespring	3e	---	0.57
	Hunters	2e	---	0.95
	Peone	5w	---	0.15
4002--Cedonia ashy silt loam, 8 to 25 percent slopes	Cedonia	4e	---	0.85
	Lakespring	4e	---	0.53
	Peone	5w	---	0.15
	Green Bluff	4e	---	0.55
	Hunters	4e	---	0.90
4031--Lakespring ashy loam, 0 to 8 percent slopes	Lakespring	3e	---	0.57
	Brincken, moist	2e	---	0.68
	Cedonia	2e	---	0.92
	Green Bluff	3c	---	0.57
	Dearyton	6w	---	0.83
	Speigle	3e	---	0.27
4032--Lakespring ashy loam, 8 to 25 percent slopes	Lakespring	4e	---	0.52
	Spokane	4e	---	0.12
	Brincken, moist	4e	---	0.63
	Dearyton	6w	---	0.81
	Marble	4e	---	0.17
	Speigle	4e	---	0.24
	Rock outcrop	8	---	---
4033--Lakespring-Brincken, moist, complex, 8 to 25 percent slopes	Lakespring	4e	---	0.52
	Brincken, moist	4e	---	0.63
	Speigle	4e	---	0.26
	Dearyton	6w	---	0.81
	Rock outcrop	8	---	---
4040--Wolfeson-Fan Lake complex, 0 to 8 percent slopes	Wolfeson	3w	---	0.61
	Fan Lake	4w	---	0.77
	Stapaloop	3c	---	0.48
	Bridgeson	5w	---	0.32

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
4041--Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes	Wolfeson	3w	---	0.62
	Fan Lake	4w	---	0.77
	Bridgeson	5w	---	0.32
	Stapaloop	3c	---	0.48
4050--Fan Lake ashy very fine sandy loam, 0 to 8 percent slopes	Fan Lake	4w	---	0.77
	Green Bluff	3c	---	0.57
	Klickson	4e	---	0.44
	Wolfeson	3w	---	0.61
	Kronquist	5w	---	0.35
4051--Fan Lake ashy very fine sandy loam, 8 to 25 percent slopes	Fan Lake	4e	---	0.70
	Klickson	4e	---	0.40
	Kruse	4e	---	0.55
	Blinn, stony surface	4s	---	0.20
	Kronquist	5w	---	0.35
	Quinnamose	4e	---	0.42
5001--Brickel gravelly ashy silt loam, 15 to 30 percent slopes	Brickel	6c	---	0.02
	Vaywood	6c	---	0.02
	Bouldercreek	4e	---	0.03
	Brevco	4e	---	0.06
	Rock outcrop	8	---	---
5023--Micapeak-Rock outcrop complex, 8 to 15 percent slopes	Micapeak	3e	---	0.33
	Rock outcrop	8	---	---
	Quinnamose	4e	---	0.51
	Clayton	3e	---	0.59
	Lenz	4s	---	0.09
	Spokane	4s	---	0.14
5024--Micapeak-Rock outcrop complex, 15 to 30 percent slopes	Micapeak	4e	---	0.27
	Rock outcrop	8	---	---
	Quinnamose	4e	---	0.39
	Brevco	4e	---	0.07
	Lenz	4e	---	0.07
	Spokane	4e	---	0.11
5025--Micapeak-Rock outcrop complex, 30 to 55 percent slopes	Micapeak	7e	---	0.08
	Rock outcrop	8	---	---
	Quinnamose	7e	---	0.12
	Brevco	7e	---	0.02
	Lenz	7e	---	0.02
	Spokane	7e	---	0.03
5026--Micapeak-Spokane complex, 15 to 30 percent slopes	Micapeak	4e	---	0.27
	Spokane	4e	---	0.11
	Quinnamose	4e	---	0.39
	Brevco	4e	---	0.07
	Clayton	4e	---	0.55
	Lenz	4e	---	0.05
	Rock outcrop	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
5027--Micapeak-Spokane complex, 30 to 55 percent slopes	Micapeak	7e	---	0.08
	Spokane	7e	---	0.03
	Brevco	7e	---	0.02
	Quinnamose	7e	---	0.12
	Lenz	7e	---	0.02
	Rock outcrop	8	---	---
5037--Spokane-Rock outcrop complex, 30 to 55 percent slopes	Spokane	7e	---	0.03
	Rock outcrop	8	---	---
	Lenz	7e	---	0.02
	Brevco	7e	---	0.02
	Kramerhill	6e	---	0.33
	Micapeak	7e	---	0.08
	Spens	7e	---	0.01
5040--Spokane-Swakane complex, 3 to 15 percent slopes	Spokane	4s	---	0.14
	Swakane	6s	---	0.01
	Kramerhill	3e	---	0.59
	Bong, moist	3e	---	0.46
	Lenz	4s	---	0.10
	Rock outcrop	8	---	---
5041--Spokane-Swakane complex, 15 to 30 percent slopes	Spokane	4e	---	0.11
	Swakane	6s	---	0.01
	Kramerhill	4e	---	0.50
	Lenz	4e	---	0.07
	Micapeak	4e	---	0.27
	Rock outcrop	8	---	---
5053--Jacot, dry-Micapeak complex, 30 to 55 percent slopes	Jacot, dry	7e	---	0.10
	Micapeak	7e	---	0.08
	Hysing, dry	7e	---	0.10
	Jacot	7e	---	0.01
	Boulderjud, dry	7e	---	0.10
	Boulderjud	7e	---	0.04
	Rock outcrop	8	---	---
5060--Bouldercreek ashy silt loam, moist, 3 to 15 percent slopes	Bouldercreek, moist	4c	---	0.03
	Boulderjud	3e	---	0.18
	Lakestarr	4c	---	0.04
	Nakarna	4c	---	0.03
	Hoodoo	5w	---	0.26
5061--Nakarna-Nakarna, dry complex, 15 to 30 percent slopes	Nakarna	4e	---	0.02
	Nakarna, dry	4e	---	0.35
	Kruse	4e	---	0.55
	Bouldercreek	4e	---	0.03
	Lakestarr	4e	---	0.04
	Quinnamose	4e	---	0.42
5062--Nakarna ashy silt loam, 30 to 60 percent slopes	Nakarna	7e	---	0.01
	Bouldercreek	7e	---	0.01
	Kruse	7e	---	0.32
	Nakarna, dry	7e	---	0.10
	Quinnamose	7e	---	0.12

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
5067--Quinnamose-Micapeak complex, 15 to 30 percent slopes	Quinnamose	4e	---	0.42
	Micapeak	4e	---	0.26
	Blackprince	4e	---	0.06
	Jacot, dry	4e	---	0.35
	Kruse	4e	---	0.55
5068--Quinnamose-Micapeak complex, 30 to 55 percent slopes	Quinnamose	7e	---	0.12
	Micapeak	7e	---	0.08
	Blackprince	7e	---	0.02
	Jacot, dry	7e	---	0.10
	Kruse	7e	---	0.32
5070--Lenz-Spokane complex, 3 to 15 percent slopes	Lenz	6s	---	0.10
	Spokane	4e	---	0.14
	Kramerhill	3e	---	0.59
	Micapeak	3e	---	0.33
	Swakane	6s	---	0.01
	Skalan	3e	---	0.29
	Rock outcrop	8	---	---
5071--Lenz-Spokane complex, 15 to 30 percent slopes	Lenz	4e	---	0.08
	Spokane	4e	---	0.11
	Brevco	4e	---	0.08
	Kramerhill	4e	---	0.50
	Micapeak	4e	---	0.27
	Swakane	6s	---	0.01
	Rock outcrop	8	---	---
5072--Lenz-Rock outcrop complex, 3 to 15 percent slopes	Lenz	4s	---	0.10
	Rock outcrop	8	---	---
	Swakane	6s	---	0.01
	Spokane	4s	---	0.14
	Clayton	3e	---	0.60
	Micapeak	3e	---	0.33
	Hardesty	2w	---	0.77
5073--Lenz-Rock outcrop complex, 15 to 30 percent slopes	Lenz	6s	---	0.08
	Rock outcrop	8	---	---
	Swakane	6s	---	0.01
	Spokane	4e	---	0.11
	Micapeak	4e	---	0.27
5074--Lenz-Rock outcrop complex, 30 to 60 percent slopes	Lenz	7e	---	0.02
	Rock outcrop	8	---	---
	Spokane	7e	---	0.03
	Swakane	7e	---	0.01
	Brevco	7e	---	0.02
	Micapeak	7e	---	0.08
5080--Vaywood medial silt loam, 15 to 30 percent slopes	Vaywood	6c	---	0.03
	Vay	6c	---	0.02
	Brevco	4e	---	0.07
	Brickel	6c	---	0.02
	Rock outcrop	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
5081--Vaywood medial silt loam, 30 to 60 percent slopes	Vaywood	7e	---	0.01
	Bouldercreek	7e	---	0.01
	Vay	7e	---	0.01
	Brickel	6c	---	0.01
	Rock outcrop	8	---	---
5090--Brevco-Ardtoo complex, 3 to 15 percent slopes	Brevco	6s	---	0.09
	Ardtoo	4e	---	0.19
	Blackprince	4e	---	0.08
	Kellerbutte	4e	---	0.39
	Rock outcrop	8	---	---
5091--Brevco gravelly ashy sandy loam, 15 to 30 percent slopes	Brevco	4e	---	0.08
	Ardtoo	4e	---	0.15
	Blackprince	4e	---	0.06
	Kellerbutte	4e	---	0.35
	Quinnamose	4e	---	0.42
	Rock outcrop	8	---	---
5092--Brevco-Rock outcrop complex, 30 to 60 percent	Brevco	7e	---	0.02
	Rock outcrop	8	---	---
	Ardtoo	7e	---	0.04
	Blackprince	7e	---	0.02
	Quinnamose	7e	---	0.12
5093--Blackprince-Ardtoo complex, 15 to 30 percent slopes	Blackprince	6s	---	0.07
	Ardtoo	4e	---	0.15
	Brevco	4e	---	0.08
	Boulderjud	4e	---	0.15
	Boulderjud, dry	4e	---	0.37
	Rock outcrop	8	---	---
5094--Blackprince-Ardtoo complex, 30 to 60 percent slopes	Blackprince	7e	---	0.02
	Ardtoo	7e	---	0.04
	Boulderjud, dry	7e	---	0.10
	Boulderjud	7e	---	0.04
	Brevco	7e	---	0.02
	Rock outcrop	8	---	---
5102--Boulderjud ashy silt loam, 15 to 30 percent slopes	Boulderjud	4e	---	0.14
	Boulderjud, dry	4e	---	0.38
	Jacot	4e	---	0.03
	Ardtoo	4e	---	0.14
	Bouldercreek	4e	---	0.03
	Rock outcrop	8	---	---
5103--Boulderjud ashy silt loam, 30 to 60 percent slopes	Boulderjud	7e	---	0.04
	Boulderjud, dry	7e	---	0.10
	Jacot	7e	---	0.01
	Ardtoo	7e	---	0.04
	Bouldercreek	7e	---	0.01
	Rock outcrop	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
5104--Boulderjud ashy silt loam, dry, 15 to 30 percent slopes	Boulderjud, dry	6e	---	0.37
	Ardtoo	4e	---	0.14
	Boulderjud	4e	---	0.15
	Jacot, dry	4e	---	0.37
	Blackprince	4e	---	0.06
	Rock outcrop	8	---	---
5105--Boulderjud ashy silt loam, dry, 30 to 60 percent slopes	Boulderjud, dry	7e	---	0.10
	Ardtoo	7e	---	0.04
	Boulderjud	7e	---	0.04
	Jacot, dry	7e	---	0.10
	Blackprince	7e	---	0.02
	Bouldercreek	7e	---	0.01
	Rock outcrop	8	---	---
5110--Bouldercreek ashy silt loam, 15 to 30 percent slopes	Bouldercreek	6e	---	0.03
	Boulderjud	4e	---	0.15
	Kellerbutte	4e	---	0.32
	Rock outcrop	8	---	---
5111--Bouldercreek ashy silt loam, 30 to 60 percent slopes	Bouldercreek	7e	---	0.01
	Nakarna	7e	---	0.01
	Boulderjud	7e	---	0.04
	Kellerbutte	7e	---	0.10
	Rock outcrop	8	---	---
5112--Bouldercreek ashy silt loam, dry, 15 to 30 percent slopes	Bouldercreek, dry	6e	---	0.34
	Bouldercreek	4e	---	0.03
	Brevco	4e	---	0.08
	Jacot	4e	---	0.03
	Kellerbutte	4e	---	0.32
	Rock outcrop	8	---	---
5113--Bouldercreek, dry-Kellerbutte complex, 30 to 60 percent slopes	Bouldercreek, dry	7e	---	0.10
	Kellerbutte	7e	---	0.10
	Bouldercreek	7e	---	0.01
	Brevco	7e	---	0.02
	Jacot	7e	---	0.01
	Rock outcrop	8	---	---
5114--Bouldercreek-Rock outcrop-Bouldercreek, dry complex, 30 to 70 percent slopes	Bouldercreek	8	---	0.01
	Rock outcrop	8	---	---
	Bouldercreek, dry	8	---	0.10
	Brevco	7e	---	0.02
	Jacot	7e	---	0.01
	Kellerbutte	7e	---	0.10
5120--Kellerbutte-Boulderjud complex, 15 to 30 percent slopes	Kellerbutte	6e	---	0.32
	Boulderjud	6e	---	0.15
	Jacot	4e	---	0.03
	Micapeak	4e	---	0.27
	Kruse	4e	---	0.55
	Nakarna	4e	---	0.02
	Brevco	4e	---	0.07

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
5121--Kellerbutte-Brevco complex, 15 to 30 percent slopes	Kellerbutte	4e	---	0.33
	Brevco	4e	---	0.07
	Ardtoo	4e	---	0.15
	Boulderjud	4e	---	0.15
	Rock outcrop	8	---	---
5122--Kellerbutte-Brevco complex, 30 to 60 percent slopes	Kellerbutte	7e	---	0.10
	Brevco	7e	---	0.02
	Ardtoo	7e	---	0.04
	Boulderjud	7e	---	0.04
	Rock outcrop	8	---	---
5123--Kellerbutte-Boulderjud, dry, complex 30 to 60 percent slopes	Kellerbutte	7e	---	0.10
	Boulderjud, dry	7e	---	0.10
	Blackprince	7e	---	0.02
	Ardtoo	7e	---	0.04
	Boulderjud	7e	---	0.04
	Jacot	7e	---	0.01
5130--Brodeer ashy silt loam, 3 to 15 percent slopes	Brodeer	4e	---	0.04
	Jacot	4c	---	0.03
	Jacot, dry	3e	---	0.44
	Kruse	3e	---	0.56
	Lakestarr	4c	---	0.04
5140--Jacot-Hysing complex, dry, 3 to 15 percent slopes	Jacot, dry	4e	---	0.44
	Hysing, dry	4e	---	0.42
	Brodeer	4c	---	0.04
	Jacot	4c	---	0.03
	Kruse	3e	---	0.56
5141--Jacot-Hysing complex, 15 to 30 percent slopes	Jacot	6e	---	0.03
	Hysing	6e	---	0.02
	Boulderjud	4e	---	0.15
	Jacot, dry	4e	---	0.32
	Brodeer	4c	---	0.04
5142--Jacot-Hysing complex, 30 to 55 percent slopes	Jacot	7e	---	0.01
	Hysing	7e	---	0.01
	Boulderjud	7e	---	0.04
	Jacot, dry	7e	---	0.10
	Hysing, dry	7e	---	0.10
5143--Jacot-Hysing complex, dry, 15 to 30 percent slopes	Jacot, dry	6e	---	0.35
	Hysing, dry	6e	---	0.33
	Boulderjud	4e	---	0.15
	Jacot	4e	---	0.03
	Boulderjud, dry	4e	---	0.37
5144--Jacot-Hysing complex, dry, 30 to 55 percent slopes	Jacot, dry	7e	---	0.10
	Hysing, dry	7e	---	0.10
	Boulderjud	7e	---	0.04
	Boulderjud, dry	7e	---	0.10
	Jacot	7e	---	0.01

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
5211--Kruse ashy silt loam, 8 to 15 percent slopes	Kruse	3e	---	0.56
	Keeler, dry	3e	---	0.37
	Micapeak	3e	---	0.33
	Kramerhill	3e	---	0.59
5212--Kruse ashy silt loam, 15 to 30 percent slopes	Kruse	4e	---	0.46
	Keeler	4e	---	0.31
	Micapeak	4e	---	0.27
	Quinnamose	4e	---	0.42
5213--Kruse ashy silt loam, 30 to 55 percent slopes	Kruse	7e	---	0.13
	Keeler, dry	7e	---	0.09
	Micapeak	7e	---	0.08
	Quinnamose	7e	---	0.12
	Boulderjud	7e	---	0.04
5310--Kramerhill ashy loam, 3 to 15 percent slopes	Kramerhill	3e	---	0.58
	Spokane	4s	---	0.14
	Swakane	6s	---	0.01
	Clayton	3e	---	0.59
	Lenz	4s	---	0.09
5313--Kramerhill-Spokane complex, 8 to 25 percent slopes	Kramerhill	4e	---	0.54
	Spokane	4e	---	0.13
	Skalan	4e	---	0.29
	Lenz	4e	---	0.08
	Clayton	4e	---	0.59
	Micapeak	4e	---	0.31
	Kruse	4e	---	0.56
	Rock outcrop	8	---	---
5314--Spokane-Kramerhill complex, 25 to 40 percent slopes	Spokane	6e	---	0.06
	Kramerhill	7e	---	0.33
	Lenz	7s	---	0.02
	Skalan	6e	---	0.07
	Rock outcrop	8	---	---
	Micapeak	6e	---	0.19
5321--Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes	Kramerhill	4e	---	0.56
	Uhlig	4e	---	0.89
	Skalan	4e	---	0.29
	Glenrose	4e	---	0.93
	Bong, moist	4e	---	0.46
	Endoaquolls, deep	6w	---	0.08
5322--Kramerhill-Skalan complex, 15 to 40 percent slopes	Kramerhill	6e	---	0.43
	Skalan	6e	---	0.17
	Spokane	6e	---	0.08
	Uhlig	4e	---	0.89
	Endoaquolls, deep	6w	---	0.06
	Rock outcrop	8	---	---
5412--Keeler fine gravelly ashy loam, 8 to 15 percent slopes	Keeler	3e	---	0.38
	Kruse	3e	---	0.56
	Micapeak	3e	---	0.33
	Santa	3e	---	0.46
	Kronquist	5w	---	0.35
	Lakestarr	4c	---	0.04

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
5413--Keeler-Kruse complex, 15 to 30 percent slopes	Keeler	4e	---	0.30
	Kruse	4e	---	0.46
	Bouldercreek, dry	4e	---	0.34
	Lakestarr	4e	---	0.04
	Micapeak	4e	---	0.24
5414--Keeler-Kruse complex, 30 to 60 percent slopes	Keeler	7e	---	0.09
	Kruse	7e	---	0.13
	Lakestarr	4e	---	0.04
	Micapeak	7e	---	0.08
	Bouldercreek	7e	---	0.01
5512--Santa ashy silt loam, 8 to 15 percent slopes	Santa	4e	---	0.54
	Cavendish	6e	---	0.52
	Crumarine	6e	---	0.75
	Reggear	4e	---	0.37
	Santa, dry	4e	---	0.54
5513--Santa ashy silt loam, 15 to 35 percent slopes	Santa	6e	---	0.44
	Kruse	4e	---	0.50
	Taney	4e	---	0.58
5602--Lakestarr-Santa complex, 8 to 15 percent slopes	Lakestarr	4e	---	0.04
	Santa	4e	---	0.46
	Keeler	3e	---	0.38
	Kruse	3e	---	0.56
	Lakestarr, dry	4c	---	0.29
	Fluvaquents, frigid	5w	---	0.03
	Lovell	3w	---	0.68
5603--Lakestarr-Santa complex, 15 to 30 percent slopes	Lakestarr	6e	---	0.04
	Santa	6e	---	0.39
	Keeler	4e	---	0.30
	Kruse	4e	---	0.45
	Bouldercreek	4e	---	0.03
	Lakestarr, dry	4e	---	0.25
	Taney	4e	---	0.50
6001--Athena silt loam, 0 to 8 percent slopes	Athena	2e	---	0.91
	Broadax	2e	---	0.87
	Lance	3e	---	0.51
	Mondovi	3w	---	0.88
	Caldwell	4w	---	0.65
	Narcisse	3w	---	0.68
6002--Athena silt loam, 8 to 15 percent slopes	Athena	3e	---	0.89
	Lance	3e	---	0.50
	Reardan	3e	---	0.85
	Hanning	3e	---	0.87
	Caldwell	4w	---	0.65
	Narcisse	3w	---	0.68
	Mondovi	3w	---	0.88
6003--Athena-Lance complex, 15 to 30 percent slopes	Athena	4e	---	0.78
	Lance	4e	---	0.37
	Reardan	4e	---	0.85
	Staley	4e	---	0.70
	Hanning	4e	---	0.75
	Caldwell	4w	---	0.65
	Mondovi	3w	---	0.90

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
6004--Athena-Lance complex, 30 to 60 percent slopes----	Athena	7e	---	0.20
	Lance	7e	---	0.12
	Reardan	4e	---	0.83
	Staley	7e	---	0.20
	Hanning	7e	---	0.20
	Broadax	4e	---	0.47
6010--Freeman ashy silt loam, 0 to 8 percent slopes----	Freeman	4w	---	0.89
	Driscoll	3w	---	0.89
	Larkin	2e	---	0.90
	Carlinton, dry	3s	---	0.50
	Santa	3s	---	0.47
	Lovell	3w	---	0.68
	Aquepts, frigid	5w	---	0.21
6011--Freeman ashy silt loam, 8 to 15 percent slopes---	Freeman	4w	---	0.86
	Carlinton, dry	3e	---	0.49
	Driscoll	3e	---	0.88
	Larkin	3e	---	0.87
	Lovell	3w	---	0.68
	Endoaquolls	5w	---	0.11
6012--Freeman ashy silt loam, 15 to 25 percent slopes--	Freeman	4e	---	0.74
	Carlinton, dry	4e	---	0.46
	Driscoll	4e	---	0.88
	Taney	4e	---	0.50
	Lovell	3w	---	0.68
	Santa	4e	---	0.39
6021--Garfield-Naff complex, 8 to 35 percent slopes----	Garfield	6e	---	0.79
	Naff	6e	---	0.88
	Athena	6e	---	0.93
	Thatuna	4e	---	0.75
	Staley	4e	---	0.90
6031--Staley-Naff complex, 8 to 25 percent slopes------	Staley	4e	---	0.82
	Naff	4e	---	0.88
	Lance	4e	---	0.45
	Broadax	4e	---	0.84
	Garfield	4e	---	0.84
6040--Larkin silt loam, 0 to 8 percent slopes----------	Larkin	2e	---	0.90
	Freeman	4w	---	0.89
	Driscoll	3w	---	0.89
	Glenrose	3e	---	0.94
	Southwick	3w	---	0.96
	Caldwell	4w	---	0.68
6041--Larkin-Southwick complex, 8 to 15 percent slopes	Larkin	3e	---	0.87
	Southwick	3e	---	0.93
	Freeman	4w	---	0.85
	Caldwell	4w	---	0.68
	Driscoll	3e	---	0.89
	Endoaquolls	5w	---	0.11
	Glenrose	3e	---	0.90

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
6042--Larkin-Southwick complex, 15 to 25 percent slopes	Larkin	4e	---	0.71
	Southwick	4e	---	0.76
	Driscoll	4e	---	0.89
	Freeman	4e	---	0.74
	Gibbs	3e	---	0.62
	Glenrose	4e	---	0.74
	Caldwell	4w	---	0.68
6043--Larkin-Driscoll complex, 0 to 8 percent slopes	Larkin	2e	---	0.90
	Driscoll	3w	---	0.89
	Southwick	3w	---	0.96
	Caldwell	4w	---	0.68
	Freeman	4w	---	0.89
	Glenrose	3e	---	0.94
6045--Southwick-Larkin complex, 15 to 25 percent slopes	Southwick	4e	---	0.76
	Larkin	4e	---	0.71
	Driscoll	4e	---	0.89
	Freeman	4e	---	0.74
	Glenrose	4e	---	0.74
	Caldwell	4w	---	0.68
6050--Tilma-Latah complex, 0 to 8 percent slopes	Tilma	3w	---	0.96
	Latah	3w	---	0.66
	Caldwell	4w	---	0.68
	Thatuna	3w	---	0.97
	Naff	2e	---	0.97
	Cald	5w	---	0.59
6061--Naff silt loam, 0 to 8 percent slopes	Naff	2e	---	0.98
	Staley	3e	---	0.91
	Thatuna	3w	---	0.98
	Broadax	2e	---	0.91
	Garfield	2e	---	0.87
	Caldwell	4w	---	0.68
	Glenrose	3e	---	0.94
6062--Naff-Thatuna complex, 8 to 25 percent slopes	Naff	4e	---	0.90
	Thatuna	4e	---	0.90
	Garfield	4e	---	0.87
	Athena	4e	---	0.93
	Staley	4e	---	0.91
	Cald	5w	---	0.59
	Caldwell	4w	---	0.68
6064--Naff silt loam, 8 to 15 percent slopes	Naff	3e	---	0.94
	Athena	3e	---	0.93
	Garfield	3e	---	0.87
	Staley	3e	---	0.91
	Thatuna	3e	---	0.94
	Caldwell	4w	---	0.68
	Cald	5w	---	0.59
6067--Naff-Garfield complex, 3 to 15 percent slopes	Naff	3e	---	0.95
	Garfield	3e	---	0.87
	Thatuna	4e	---	0.95
	Athena	3e	---	0.93
	Caldwell	4w	---	0.68
	Cald	5w	---	0.59
	Staley	3e	---	0.91

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
6068--Naff-Garfield complex, 15 to 25 percent slopes	Naff	4e	---	0.81
	Garfield	4e	---	0.72
	Thatuna	4e	---	0.81
	Athena	4e	---	0.93
	Caldwell	4w	---	0.68
	Staley	4e	---	0.92
6072--Hanning silt loam, 8 to 15 percent slopes	Hanning	3e	---	0.85
	Athena	3e	---	0.89
	Lance	4e	---	0.48
	Reardan	3e	---	0.84
6073--Hanning silt loam, 15 to 30 percent slopes	Hanning	4e	---	0.71
	Lance	4e	---	0.41
	Athena	4e	---	0.78
	Mondovi	3w	---	0.90
	Reardan	4e	---	0.86
6074--Hanning silt loam, 30 to 60 percent slopes	Hanning	7e	---	0.20
	Athena	7e	---	0.21
	Lance	7e	---	0.12
	Reardan	4e	---	0.86
6080--Nez Perce ashy silt loam, 0 to 8 percent slopes	Nez Perce	6w	---	0.92
	Brincken, moist	2e	---	0.68
	Lakespring	3e	---	0.57
	Uhlig	2e	---	0.92
6093--Reardan silt loam, 0 to 8 percent slopes	Reardan	3e	---	0.86
	Athena	2e	---	0.93
	Broadax	2e	---	0.89
	Lance	2e	---	0.52
	Hanning	2e	---	0.91
	Caldwell	4w	---	0.63
6094--Reardan silt loam, 8 to 15 percent slopes	Reardan	3e	---	0.83
	Hanning	3e	---	0.88
	Broadax	3e	---	0.87
	Lance	3e	---	0.50
	Caldwell	4w	---	0.63
	Athena	3e	---	0.92
6096--Broadax-Reardan silt loams, 3 to 25 percent slopes	Broadax	4e	---	0.82
	Reardan	4e	---	0.85
	Lance	4e	---	0.50
	Athena	4e	---	0.86
	Caldwell	4w	---	0.63
	Hanning	4e	---	0.84
6110--Broadax silt loam, 0 to 8 percent slopes	Broadax	2e	---	0.89
	Athena	2e	---	0.93
	Lance	2e	---	0.52
	Reardan	3e	---	0.86
	Caldwell	4w	---	0.63
	Hanning	2e	---	0.91

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
6111--Broadax silt loam, 8 to 15 percent slopes	Broadax	3e	---	0.87
	Athena	3e	---	0.92
	Reardan	3e	---	0.88
	Lance	3e	---	0.52
	Caldwell	4w	---	0.65
	Naff	3e	---	0.90
	Hanning	3e	---	0.90
6112--Broadax silt loam, 15 to 30 percent slopes	Broadax	4e	---	0.71
	Athena	4e	---	0.75
	Lance	4e	---	0.42
	Reardan	4e	---	0.88
	Naff	4e	---	0.77
	Caldwell	4w	---	0.65
6130--Thatuna-Naff complex, 8 to 15 percent slopes	Thatuna	3e	---	0.94
	Naff	3e	---	0.94
	Athena	3e	---	0.93
	Garfield	3e	---	0.87
	Caldwell	4w	---	0.68
6131--Thatuna-Naff complex, 15 to 30 percent slopes	Thatuna	4e	---	0.77
	Naff	4e	---	0.76
	Athena	4e	---	0.79
	Garfield	4e	---	0.87
	Caldwell	4w	---	0.68
	Cald	5w	---	0.59
6140--Driscoll silt loam, 0 to 8 percent slopes	Driscoll	3w	---	0.89
	Larkin	2e	---	0.90
	Southwick	3w	---	0.95
	Bobbitt	4s	---	0.16
	Gibbs	3e	---	0.63
6141--Driscoll-Larkin complex, 8 to 15 percent slopes	Driscoll	3e	---	0.88
	Larkin	3e	---	0.87
	Southwick	3e	---	0.93
	Cald	5w	---	0.59
	Glenrose	3e	---	0.90
	Latah	3w	---	0.66
6200--Morical ashy silt loam, 0 to 15 percent slopes	Morical	3e	---	0.45
	Glenrose	3e	---	0.88
	Kramerhill	3e	---	0.55
	Reardan	3e	---	0.86
	Swakane	6s	---	0.01
	Athena	3e	---	0.93
6201--Morical ashy silt loam, 15 to 30 percent slopes	Morical	4e	---	0.35
	Athena	4e	---	0.73
	Dearyton	6w	---	0.63
	Glenrose	4e	---	0.71
	Kramerhill	4e	---	0.44
7090--Urban land-Lenz, disturbed complex, 3 to 15 percent slopes	Urban land	8	---	---
	Lenz, disturbed	4s	---	0.05
	Spokane, disturbed	4s	---	0.17
	Swakane, disturbed	6s	---	0.02
	Rock outcrop	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
7091--Urban land-Lenz, disturbed complex, 15 to 30 percent slopes	Urban land	8	---	---
	Lenz, disturbed	4e	---	0.04
	Spokane, disturbed	4e	---	0.13
	Swakane, disturbed	6s	---	0.02
	Rock outcrop	8	---	---
7101--Pits-Dumps complex	Pits	8	---	---
	Dumps	8	---	---
7102--Riverwash	Riverwash	8	---	---
7103--Xerolls silt loam, warm, mass wasted, 8 to 25 percent slopes	Xerolls, warm, mass wasted	4e	---	0.50
	Bobbitt	4e	---	0.15
	Brincken, moist, mass wasted	4e	---	0.63
	Dearyton	6w	---	0.77
	Lakespring	4e	---	0.53
	Speigle, mass wasted	4e	---	0.26
	Rock outcrop	8	---	---
7104--Xerolls silt loam, cool, mass wasted, 8 to 25 percent slopes	Xerolls, cool, mass wasted	4e	---	0.38
	Fan Lake	4w	---	0.77
	Klickson, mass wasted	4e	---	0.44
	Lakespring	4e	---	0.53
	Green Bluff	3c	---	0.57
	Blinn, stony surface	4s	---	0.20
	Elmira	4e	---	0.14
	Kronquist	5w	---	0.35
	Rock outcrop	8	---	---
7105--Urban land, gravelly substratum, 0 to 15 percent slopes	Urban land, gravelly substratum	8	---	---
	Opportunity, disturbed	4s	---	0.12
	Marble, disturbed	4s	---	0.19
7106--Urban land, sandy substratum, 0 to 15 percent slopes	Urban land, gravelly substratum	8	---	---
	Marble, disturbed	4s	---	0.19
	Marblespring, disturbed	4s	---	0.17
7107--Urban land, basalt bedrock substratum, 0 to 15 percent slopes	Urban land, basalt bedrock substratum	8	---	---
	Northstar, disturbed	7s	---	0.01
	Rock outcrop	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
7110--Urban land-Opportunity, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Opportunity, disturbed	4s	2s	0.12
	Bong, moist, disturbed	3s	---	0.46
	Garrison, disturbed	4s	---	0.12
	Hardesty, disturbed	2w	---	0.76
	Marblespring, disturbed	4s	---	0.18
	Springdale, disturbed	4s	---	0.07
7111--Urban land-Opportunity, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Opportunity, disturbed	4s	---	0.12
	Bong, moist, disturbed	3s	---	0.46
	Garrison, disturbed	4s	---	0.12
	Hardesty, disturbed	2w	---	0.76
	Marblespring, disturbed	4s	---	0.18
	Springdale, disturbed	4s	---	0.07
7112--Urban land-Opportunity, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Opportunity, disturbed	4s	---	0.12
	Bong, moist, disturbed	3e	---	0.45
	Garrison, disturbed	4s	---	0.11
	Hardesty, disturbed	2w	---	0.76
	Marblespring, disturbed	4s	---	0.17
	Springdale, disturbed	4s	---	0.06
7115--Urban land-Marblespring, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Marblespring, disturbed	4s	---	0.18
	Marble, disturbed	4s	---	0.20
	Opportunity, disturbed	4s	---	0.12
	Phoebe, disturbed	2s	---	0.60
	Springdale, disturbed	4s	---	0.07
7116--Urban land-Marblespring, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Marblespring, disturbed	4s	---	0.18
	Marble, disturbed	4s	---	0.20
	Opportunity, disturbed	4s	---	0.12
	Phoebe, disturbed	2e	---	0.60
	Springdale, disturbed	4s	---	0.07

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
7117--Urban land-Marblespring, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Marblespring, disturbed	4s	---	0.17
	Marble, disturbed	4s	---	0.19
	Opportunity, disturbed	4s	---	0.12
	Phoebe, disturbed	3e	---	0.58
	Springdale, disturbed	4s	---	0.06
7120--Urban land-Marble, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Marble, disturbed	4s	---	0.20
	Marblespring, disturbed	4s	---	0.18
	Hardesty, disturbed	2w	---	0.76
7121--Urban land-Marble, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Marble, disturbed	4s	---	0.20
	Hardesty, disturbed	2w	---	0.76
	Hagen, disturbed	3e	---	0.48
	Marblespring, disturbed	4s	---	0.18
	Phoebe, disturbed	2e	---	0.60
7122--Urban land-Marble, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Marble, disturbed	4s	---	0.19
	Bong, moist, disturbed	3e	---	0.45
	Hardesty, disturbed	2w	---	0.76
	Lakespring, disturbed	3e	---	0.55
	Marblespring, disturbed	4s	---	0.17
	Rock outcrop	8	---	---
7123--Urban land-Marble, disturbed complex, 15 to 30 percent slopes	Urban land	8	---	---
	Marble, disturbed	4e	---	0.15
	Lakespring, disturbed	4e	---	0.47
	Rock outcrop	8	---	---
	Rubble land	8	---	---
	Speigle, disturbed	4e	---	0.20
7130--Urban land-Northstar, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Northstar, disturbed	7s	---	0.01
	Rock outcrop	8	---	---
	Rockly, disturbed	7s	---	0.00
	Springdale, disturbed	4s	---	0.06
	Lakespring, disturbed	3s	---	0.56

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
7131--Urban land-Northstar, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Northstar, disturbed	7s	---	0.01
	Rock outcrop	8	---	---
	Rockly, disturbed	7s	---	0.00
	Lakespring, disturbed	3e	---	0.56
	Springdale, disturbed	4s	---	0.06
7132--Urban land-Northstar, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Northstar, disturbed	7s	---	0.01
	Rock outcrop	8	---	---
	Rockly, disturbed	7s	---	0.00
	Seaboldt, disturbed	3e	---	0.36
	Springdale, disturbed	4s	---	0.06
7134--Urban land-Northstar, disturbed complex, 15 to 30 percent slopes	Urban land	8	---	---
	Northstar, disturbed	7s	---	0.01
	Rock outcrop	8	---	---
	Rockly, disturbed	7s	---	0.00
	Speigle, disturbed	4e	---	0.19
	Springdale, disturbed	4s	---	0.06
	Lakespring, disturbed	4e	---	0.46
7140--Urban land-Uhlig, disturbed complex, 0 to 8 percent slopes	Urban land	8	---	---
	Uhlig, disturbed	2e	---	0.90
	Seaboldt, warm, disturbed	3e	---	0.40
	Brincken, moist, disturbed	2e	---	0.67
	Nez Perce, disturbed	6w	---	0.90
7150--Urban land-Seaboldt, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Seaboldt, disturbed	3s	---	0.39
	Brincken, moist, disturbed	2e	---	0.67
	Uhlig, disturbed	2c	---	0.90
	Phoebe, disturbed	2s	---	0.60
	Marble, disturbed	4s	---	0.20
7151--Urban land-Seaboldt, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Seaboldt, disturbed	3e	---	0.39
	Brincken, moist, disturbed	2e	---	0.67
	Marble, disturbed	4s	---	0.20
	Phoebe, disturbed	2e	---	0.60
	Uhlig, disturbed	2e	---	0.90

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
7152--Urban land-Seaboldt, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Seaboldt, disturbed	3e	---	0.37
	Rock outcrop	8	---	---
	Lakespring, disturbed	3e	---	0.55
	Marblespring, disturbed	4s	---	0.17
	Springdale, disturbed, stony surface	4s	---	0.05
7163--Urban land-Spens, disturbed complex, 15 to 30 percent slopes	Urban land	8	---	---
	Spens, disturbed	4e	---	0.02
	Marble, disturbed	4e	---	0.15
	Springdale, disturbed	4s	---	0.06
7170--Urban land-Springdale, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Springdale, disturbed	4s	---	0.07
	Marblespring, disturbed	4s	---	0.18
	Opportunity, disturbed	4s	---	0.12
	Marble, disturbed	4s	---	0.19
7171--Urban land-Springdale, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Springdale, disturbed	4s	---	0.07
	Marblespring, disturbed	4s	---	0.18
	Brincken, moist, disturbed	2e	---	0.67
	Opportunity, disturbed	4s	---	0.12
	Marble, disturbed	4s	---	0.20
7172--Urban land-Springdale, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Springdale, disturbed	4s	---	0.06
	Marblespring, disturbed	4s	---	0.17
	Spens, disturbed	4e	---	0.02
7177--Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Seaboldt, warm, disturbed	3s	---	0.39
	Brincken, moist, disturbed	2e	---	0.65
	Nez Perce, disturbed	6w	---	0.88
	Uhlig, disturbed	2c	---	0.88
	Stutler, disturbed	3s	---	0.29

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
7178--Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Seaboldt, warm, disturbed	3e	---	0.39
	Brincken, moist, disturbed	2e	---	0.65
	Nez Perce, disturbed	6w	---	0.88
	Uhlig, disturbed	2e	---	0.88
	Stutler, disturbed	3s	---	0.29
7179--Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Seaboldt, warm, disturbed	3e	---	0.37
	Brincken, moist, disturbed	3e	---	0.62
	Rockly, disturbed	7s	---	0.00
	Rock outcrop	8	---	---
7180--Urban land-Phoebe, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Phoebe, disturbed	2s	---	0.60
	Bong, moist, disturbed	3s	---	0.46
	Hardesty, disturbed	2w	---	0.76
	Marble, disturbed	4s	---	0.20
7181--Urban land-Phoebe, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Phoebe, disturbed	2e	---	0.60
	Bong, moist, disturbed	3s	---	0.46
	Hardesty, disturbed	2w	---	0.76
	Marble, disturbed	4s	---	0.20
7182--Urban land-Phoebe, disturbed complex, 8 to 15 percent slopes	Urban land	8	---	---
	Phoebe, disturbed	3e	---	0.58
	Bong, moist, disturbed	3e	---	0.45
	Lakespring, disturbed	3e	---	0.54
	Marble, disturbed	4s	---	0.19
7190--Urban land-Lakespring, disturbed complex, 0 to 3 percent slopes	Urban land	8	---	---
	Lakespring, disturbed	3s	---	0.56
	Marble, disturbed	4s	---	0.19
	Northstar, disturbed	7s	---	0.01
	Rock outcrop	8	---	---
7191--Urban land-Lakespring, disturbed complex, 3 to 8 percent slopes	Urban land	8	---	---
	Lakespring, disturbed	3e	---	0.56
	Marble, disturbed	4s	---	0.19
	Northstar, disturbed	7s	---	0.01
	Rock outcrop	8	---	---

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
7197--Urban land-Spokane, disturbed complex, 15 to 30 percent slopes	Urban land	8	---	---
	Spokane, disturbed	4e	---	0.13
	Lenz, disturbed	4e	---	0.04
	Rock outcrop	8	---	---
	Swakane, disturbed	6s	---	0.02
7200--Rock outcrop-Rubble land complex, cliffs, 0 to 90 percent slopes	Rock outcrop, cliffs	8	---	---
	Rubble land, cliffs	8	---	---
8000--Pywell-Bellslake complex, 0 to 3 percent slopes	Pywell	5w	5w	0.05
	Bellslake	5w	5w	0.07
	Hoodoo	5w	---	0.26
8001--Saltese muck, 0 to 3 percent slopes	Saltese	5w	---	0.34
	Cocolalla	5w	---	0.41
	Narcisse	3w	---	0.58
	Water	8	---	---
8002--Saltese muck, drained, 0 to 3 percent slopes	Saltese, drained	3w	---	0.48
	Fluvaquentic Haplosaprists	3w	---	0.48
	Peone, drained	3w	---	0.29
	Endoaquolls	5w	---	0.09
9124--Caldwell-Cald complex, 0 to 3 percent slopes	Caldwell	4w	4w	0.67
	Cald	5w	5w	0.59
	Endoaquolls	5w	---	0.11
	Thatuna	3w	---	0.94
	Latah	3w	---	0.61
9300--Taney ashy silt loam, 3 to 8 percent slopes	Taney	4e	4e	0.58
	Carlinton, dry	3s	---	0.57
	Latahco	4w	---	0.65
	Setters	3w	---	0.76
	Southwick	3w	---	0.88
9301--Taney ashy silt loam, 8 to 20 percent slopes	Taney	4e	---	0.55
	Carlinton, dry	4e	---	0.52
	Benewah	4e	---	0.63
	Setters	3e	---	0.75
	Latahco	4w	---	0.65
9330--Carlinton-Carlinton, dry, complex, 3 to 20 percent slopes	Carlinton	4e	---	0.55
	Carlinton, dry	4e	---	0.54
	Lovell	5w	---	0.51
	Taney	3e	---	0.55
	Benewah	4e	---	0.63
9335--Carlinton ashy silt loam, dry, 8 to 25 percent slopes	Carlinton, dry	4e	---	0.53
	Carlinton	4e	---	0.54
	Taney	4e	---	0.55
	Benewah	4e	---	0.63
	Lovell	5w	---	0.51
	Santa	3e	---	0.56

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
9336--Carlinton, dry-Taney complex, 3 to 8 percent slopes	Carlinton, dry	4e	4e	0.57
	Taney	4e	4e	0.58
	Carlinton	3s	---	0.57
	Benewah	3w	---	0.67
	Santa	3s	---	0.59
	Latahco	4w	---	0.65
9340--Arson-Lotuspoint complex, 10 to 40 percent slopes	Arson	6e	---	0.33
	Lotuspoint	7e	---	0.04
	Ardenvoir	7e	---	0.09
	Ardenvoir, dry	6e	---	0.21
	Bechtel	6e	---	0.29
	Sinkler	6e	---	0.58
9341--Sinkler-Arson complex, 10 to 40 percent slopes	Sinkler	6e	---	0.51
	Arson	6e	---	0.33
	Benewah	4e	---	0.56
	Sharptop	4e	---	0.49
	Bechtel	6e	---	0.29
	Grangemont, warm	4e	---	0.58
9342--Sinkler, dry-Arson, dry complex, 10 to 40 percent slopes	Sinkler, dry	6e	---	0.56
	Arson, dry	6e	---	0.37
	Ardenvoir, dry	6e	---	0.21
	McCrosket	6e	---	0.31
	Lotuspoint	6e	---	0.06
	Sinkler	4e	---	0.73
9350--Southwick ashy silt loam, 3 to 8 percent slopes	Southwick	3w	3e	0.94
	Larkin	2e	---	0.93
	Latahco	4w	---	0.69
	Cald	5w	---	0.63
	Driscoll	3e	---	0.81
	Taney	3s	---	0.57
9355--Southwick-Driscoll complex, 3 to 15 percent slopes	Southwick	3e	---	0.92
	Driscoll	3w	---	0.81
	Larkin	3e	---	0.90
	Latahco	4w	---	0.69
	Cald	5w	---	0.63
	Garfield	3e	---	0.80
9356--Southwick-Driscoll complex, 15 to 25 percent slopes	Southwick	4e	---	0.83
	Driscoll	4e	---	0.70
	Larkin	4e	---	0.83
	Garfield	4e	---	0.70
	Cald	5w	---	0.63
9363--Larkin-Driscoll complex, 3 to 12 percent slopes	Larkin	2e	3e	0.94
	Driscoll	3e	---	0.80
	Southwick	3e	---	0.93
	Latahco	4w	---	0.69
	Cald	5w	---	0.63
	Garfield	3e	---	0.81

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
9364--Larkin-Southwick complex, 3 to 12 percent slopes	Larkin	2e	3e	0.93
	Southwick	3w	3e	0.94
	Driscoll	3e	---	0.80
	Latahco	4w	---	0.69
	Cald	5w	---	0.63
	Taney	3w	---	0.57
9367--Larkin-Driscoll complex, 12 to 25 percent slopes	Larkin	4e	---	0.76
	Driscoll	4e	---	0.70
	Garfield	4e	---	0.70
	Southwick	4e	---	0.87
	Cald	5w	---	0.63
9610--Schumacher silt loam, 5 to 25 percent slopes-----	Schumacher	3e	---	0.61
	Tekoa	4e	---	0.22
	Libertybutte	6e	---	0.05
	McCrosket	4e	---	0.38
	Larkin	3e	---	0.93
9611--Schumacher-Tekoa complex, 25 to 40 percent slopes----------	Schumacher	6e	---	0.35
	Tekoa	6e	---	0.09
	Libertybutte	7e	---	0.03
	McCrosket	6e	---	0.16
	Cassyhill	7e	---	0.00
	Arson, dry	7e	---	0.13
9612--Libertybutte-Tekoa complex, 5 to 30 percent slopes----------	Libertybutte	6e	---	0.04
	Tekoa	6e	---	0.14
	Schumacher	3e	---	0.61
	McCrosket	6e	---	0.35
	Cassyhill	6e	---	0.00
9613--Ardenvoir, dry-Lotuspoint complex, 5 to 30 percent slopes----------	Ardenvoir, dry	4e	---	0.32
	Lotuspoint	4e	---	0.07
	Arson, dry	6e	---	0.51
	Cassyhill	6e	---	0.00
	McCrosket	4e	---	0.39
9614--Ardenvoir, dry-Lotuspoint complex, 30 to 65 percent slopes----------	Ardenvoir, dry	7e	---	0.09
	Lotuspoint	7e	---	0.02
	Cassyhill	7e	---	0.00
	McCrosket	6e	---	0.26
	Pinecreek	7e	---	0.13
9617--Tekoa gravelly ashy silt loam, 15 to 40 percent slopes----------	Tekoa	6e	---	0.15
	Schumacher	4e	---	0.53
	Libertybutte	6e	---	0.04
	Cassyhill	6e	---	0.00
	Arson, dry	6e	---	0.33
9701--Ardenvoir-McCrosket association, 35 to 65 percent slopes----------	Ardenvoir	7e	---	0.09
	McCrosket	7e	---	0.09
	Lotuspoint	7e	---	0.01
	Ardenvoir, dry	7e	---	0.09
	Huckle, dry	7e	---	0.09
	Cassyhill	7e	---	0.00

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
9703--Ardenvoir, dry-Ardenvoir complex, 35 to 65 percent slopes	Ardenvoir, dry	7e	---	0.08
	Ardenvoir	7e	---	0.08
	Lotuspoint	7e	---	0.02
	McCrosket	7e	---	0.10
	Huckle, dry	7e	---	0.10
	Cassyhill	7e	---	0.00
9704--Ardenvoir, dry-Ardenvoir complex, 15 to 35 percent slopes	Ardenvoir, dry	6e	---	0.27
	Ardenvoir	6e	---	0.27
	Lotuspoint	6e	---	0.06
	McCrosket	6e	---	0.33
	Arson, dry	6e	---	0.51
	Cassyhill	6e	---	0.00
9706--Ardenvoir gravelly ashy silt loam, 35 to 65 percent slopes	Ardenvoir	7e	---	0.09
	Ardenvoir, dry	7e	---	0.09
	Huckle	7e	---	0.09
	McCrosket	6e	---	0.21
	Saint Maries, dry	7e	---	0.07
9707--Huckle, dry-Ardenvoir complex, 35 to 65 percent slopes	Huckle, dry	7e	---	0.09
	Ardenvoir	7e	---	0.09
	Ahrs	7e	---	0.09
	Saint Maries, dry	7e	---	0.07
	Rasser	7e	---	0.09
	Honeyjones, warm	7e	---	0.10
9710--McCrosket-Ardenvoir association, 15 to 35 percent slopes	McCrosket	4e	---	0.29
	Ardenvoir	6e	---	0.27
	Ardenvoir, dry	6e	---	0.28
	Lotuspoint	6e	---	0.05
	Arson	6e	---	0.42
	Tekoa	6e	---	0.12
9711--McCrosket-Ardenvoir association, 35 to 65 percent slopes	McCrosket	7e	---	0.09
	Ardenvoir	7e	---	0.09
	Lotuspoint	7e	---	0.01
	Arson	7e	---	0.13
	Huckle, dry	7e	---	0.09
	Tekoa	7e	---	0.04
9712--McCrosket-Tekoa association, 35 to 65 percent slopes	McCrosket	7e	---	0.11
	Tekoa	7e	---	0.05
	Ardenvoir	7e	---	0.09
	Lotuspoint	7e	---	0.02
	Cassyhill	7e	---	0.00
	Rasser	7e	---	0.11

Table 6.--Land Capability Classification and Nonirrigated Wheat Productivity Index--Continued

Map unit symbol and name	Component name	Land capability		Nonirrigated wheat productivity index
		N	I	
9735--Lotuspoint stony ashy silt loam, 35 to 65 percent slopes, stony surface	Lotuspoint, stony surface	8	---	0.01
	Cassyhill	7e	---	0.00
	Pinecreek	7e	---	0.13
	Ardenvoir	7e	---	0.09
	Rasser	7e	---	0.12
	Rock outcrop	8	---	---
9770--Pinecreek gravelly ashy silt loam, 30 to 75 percent slopes	Pinecreek	7e	---	0.11
	Ahrs	7e	---	0.09
	Lotuspoint	7e	---	0.02
	Rasser	7e	---	0.09
	Cassyhill	7e	---	0.00
	Rock outcrop	8	---	---
9775--Pinecreek gravelly ashy silt loam, moist, 20 to 65 percent slopes	Pinecreek, moist	7e	---	0.10
	Ahrs	7e	---	0.09
	Lotuspoint	7e	---	0.02
	Rasser	7e	---	0.09
	Honeyjones, warm	7e	---	0.10
	Rock outcrop	8	---	---
9776--Cassyhill very gravelly ashy silt loam, 35 to 65 percent slopes	Cassyhill	7e	---	0.00
	Lotuspoint, stony surface	7e	---	0.01
	Ardenvoir, dry	7e	---	0.09
	Rock outcrop	8	---	---
9778--Cassyhill-Lotuspoint complex, 5 to 30 percent slopes	Cassyhill	7s	---	0.00
	Lotuspoint	4e	---	0.07
	Ardenvoir, dry	6e	---	0.28
	Pinecreek	4e	---	0.49
	Rock outcrop	8	---	---
9782--Ardenvoir, dry-Cassyhill complex, 35 to 65 percent slopes	Ardenvoir, dry	7e	---	0.09
	Cassyhill	8	---	0.00
	Lotuspoint, stony surface	7e	---	0.01
	Arson, dry	7e	---	0.13
	Rock outcrop	8	---	---
W--Water	Water	8	---	---

Table 7.--Nonirrigated Hay Productivity Indices

(The indices are for major land resource areas 9, 43A, and 44A (Palouse and Nez Perce Prairies, Northern Rocky Mountains, and Mountain Valleys). Productivity index values range from 0.00 to 1.00. The higher the index value, the higher the potential productivity.)

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
1001:			
Bridgeson	0.00	0.71	1.00
Hoodoo	0.00	0.00	0.94
Wolfeson	0.00	0.61	0.00
Pywell	0.00	0.06	0.27
Endoaquolls	0.00	0.00	0.67
1010:			
Caldwell	0.00	0.84	1.00
Thatuna	0.98	0.99	0.00
Cald	0.00	0.25	1.00
Latah	0.00	0.80	1.00
Mondovi	1.00	0.84	0.00
Endoaquolls	0.00	0.00	0.67
1015:			
Caldwell	0.00	0.75	1.00
Cald	0.00	0.22	1.00
Endoaquolls	0.00	0.00	0.67
Mondovi	0.89	0.75	0.00
Narcisse	0.75	0.64	0.00
1020:			
Cocolalla	0.00	0.00	1.00
Hardesty	0.00	0.70	0.66
Northstar	0.00	0.00	0.00
Rockly	0.00	0.00	0.00
Saltese	0.00	0.16	0.85
Water	---	---	---
1021:			
Cocolalla	0.00	0.00	1.00
Hardesty	0.00	0.70	0.66

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
1021:			
Rockly	0.00	0.00	0.00
Saltese	0.00	0.16	0.85
Northstar	0.00	0.00	0.00
Speigle	0.00	0.00	0.00
Water	---	---	---
1030:			
Emdent	0.00	0.05	0.39
Hardesty	0.00	0.70	0.66
Cocolalla	0.00	0.00	1.00
Rockly	0.00	0.00	0.00
Saltese	0.00	0.16	0.85
1040:			
Hardesty	0.00	0.78	0.66
Narcisse	0.84	0.71	0.00
Bong, moist	0.49	0.57	0.00
Peone	0.00	0.24	0.96
Cocolalla	0.00	0.00	1.00
Northstar	0.00	0.00	0.00
1050:			
Hoodoo	0.00	0.00	0.94
Kronquist	0.00	0.84	1.00
Colburn	0.00	0.41	0.53
Pywell	0.00	0.06	0.27
1070:			
Mondovi	0.94	0.79	0.09
Caldwell	0.00	0.79	1.00
Athena	0.84	0.84	0.00
Endoaquolls	0.00	0.00	0.67
Narcisse	0.79	0.67	0.00
1080:			
Narcisse	0.84	0.71	0.00
Hardesty	0.00	0.78	0.66

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
1080:			
Bong, moist	0.49	0.57	0.00
Kronquist	0.00	0.84	1.00
1081:			
Narcisse	0.84	0.71	0.00
Hardesty	0.00	0.78	0.66
Kronquist	0.00	0.84	1.00
Opportunity	0.25	0.58	0.00
1090:			
Peone	0.00	0.24	0.96
Saltese	0.00	0.07	0.31
Endoaquolls	0.00	0.00	0.67
Kronquist	0.00	0.84	1.00
Peone, drained	0.00	0.79	0.97
Water	---	---	---
1091:			
Peone, drained	0.00	0.79	0.97
Hardesty	0.00	0.78	0.66
Kronquist	0.00	0.84	1.00
Cedonia	0.79	0.80	0.00
Endoaquolls	0.00	0.00	0.67
1092:			
Hoodoo	0.00	0.00	0.94
Bellslake	0.00	0.07	0.31
Kronquist	0.00	0.84	1.00
Pywell	0.00	0.06	0.27
Water	---	---	---
1120:			
Lovell	0.00	0.65	0.77
Colburn	0.00	0.41	0.53
Santa	0.00	0.62	0.00
Freeman	0.00	0.74	0.00
Kronquist	0.00	0.84	1.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
1130:			
Colburn	0.00	0.41	0.53
Hoodoo	0.00	0.00	0.94
Eloika	0.64	0.75	0.00
Wolfeson	0.00	0.61	0.00
1200:			
Endoaquolls	0.00	0.00	0.67
Fluvaquents	0.00	0.00	0.11
Hardesty	0.00	0.78	0.66
Saltese	0.00	0.07	0.31
Water	---	---	---
1203:			
Haploxerolls, channeled	0.00	0.82	0.00
Mondovi	0.98	0.82	0.09
Endoaquolls	0.00	0.00	0.67
Riverwash	---	---	---
Water	---	---	---
1300:			
Aquepts, frigid	0.00	0.17	0.91
Lovell	0.00	0.63	0.77
Colburn	0.00	0.40	0.53
Freeman	0.00	0.71	0.00
Kaniksu	0.32	0.33	0.00
Kronquist	0.00	0.81	1.00
Pywell	0.00	0.06	0.27
Water	---	---	---
2040:			
Klickson, mass wasted	0.42	0.58	0.00
Blinn, stony surface	0.08	0.13	0.00
Green Bluff	0.53	0.53	0.00
Rock outcrop	---	---	---
Xerolls, frigid, mass wasted	0.00	0.00	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
2040:			
Lacy	0.00	0.00	0.00
Speigle	0.00	0.00	0.00
2041:			
Klickson	0.00	0.27	0.00
Lacy	0.00	0.00	0.00
Blinn, stony surface	0.00	0.06	0.00
Rock outcrop	---	---	---
Xerolls, frigid, mass wasted	0.00	0.00	0.00
2042:			
Rock outcrop	---	---	---
Klickson	0.00	0.00	0.00
Speigle	0.00	0.00	0.00
Rubble land	---	---	---
Lacy	0.00	0.00	0.00
2043:			
Klickson, mass wasted	0.42	0.58	0.00
Speigle, mass wasted	0.00	0.00	0.00
Green Bluff	0.53	0.53	0.00
Klickson	0.42	0.58	0.00
Rock outcrop	---	---	---
Spens	0.00	0.14	0.00
Xerolls, frigid, mass wasted	0.00	0.00	0.00
Fan Lake	0.00	0.82	0.00
Lacy	0.00	0.00	0.00
2044:			
Klickson	0.00	0.27	0.00
Speigle	0.00	0.00	0.00
Green Bluff	0.41	0.53	0.00
Lacy	0.00	0.00	0.00
Spens	0.00	0.07	0.00
Rock outcrop	---	---	---

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
2044:			
Rubble land	---	---	---
2045:			
Marble, mass wasted	0.08	0.19	0.00
Speigle, mass wasted	0.00	0.00	0.00
Spens	0.01	0.14	0.00
Lakespring	0.00	0.44	0.00
Klickson, mass wasted	0.51	0.60	0.00
Rock outcrop	---	---	---
2046:			
Klickson	0.00	0.27	0.00
Speigle	0.00	0.00	0.00
Rock outcrop	---	---	---
Lacy	0.00	0.00	0.00
Spens	0.00	0.07	0.00
Rubble land	---	---	---
2050:			
Speigle	0.00	0.00	0.00
Spens	0.00	0.14	0.00
Bobbitt	0.00	0.00	0.00
Lacy	0.00	0.00	0.00
Rock outcrop	---	---	---
2051:			
Speigle	0.00	0.00	0.00
Spens	0.00	0.06	0.00
Lacy	0.00	0.00	0.00
Bobbitt	0.00	0.00	0.00
Rubble land	---	---	---
Rock outcrop	---	---	---
2052:			
Brincken, moist, mass wasted	0.73	0.90	0.00
Speigle, mass wasted	0.00	0.00	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
2052:			
Gibbs	0.55	0.73	0.00
Lakespring	0.00	0.45	0.00
Klickson, mass wasted	0.51	0.60	0.00
Narcisse	0.84	0.71	0.00
Rock outcrop	---	---	---
2053:			
Speigle	0.00	0.00	0.00
Rock outcrop	---	---	---
Bobbitt	0.00	0.00	0.00
Northstar	0.00	0.00	0.00
Lacy	0.00	0.00	0.00
Rubble land	---	---	---
Spens	0.00	0.14	0.00
2054:			
Speigle	0.00	0.00	0.00
Rubble land	---	---	---
Rock outcrop	---	---	---
Klickson	0.00	0.26	0.00
Lacy	0.00	0.00	0.00
Spens	0.00	0.06	0.00
2070:			
Bobbitt	0.00	0.00	0.00
Lacy	0.00	0.00	0.00
Gibbs	0.63	0.73	0.00
Rock outcrop	---	---	---
Hardesty	0.00	0.78	0.66
Lakespring	0.00	0.45	0.00
Stutler	0.19	0.25	0.00
2071:			
Bobbitt	0.00	0.00	0.00
Speigle	0.00	0.00	0.00
Gibbs	0.49	0.73	0.00

TTable 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
2071:			
Lacy	0.00	0.00	0.00
Rock outcrop	---	---	---
2080:			
Gibbs	0.63	0.73	0.00
Bobbitt	0.00	0.00	0.00
Driscoll	0.00	0.96	0.00
Lacy	0.00	0.00	0.00
Rock outcrop	---	---	---
Caldwell	0.00	0.84	1.00
2081:			
Gibbs	0.59	0.72	0.00
Bobbitt	0.00	0.00	0.00
Brincken, moist	0.83	0.90	0.00
Driscoll	0.00	0.96	0.00
Speigle	0.00	0.00	0.00
Rock outcrop	---	---	---
Lacy	0.00	0.00	0.00
2085:			
Tucannon	0.43	0.48	0.00
Cheney	0.59	0.71	0.00
Cocolalla	0.00	0.00	1.00
Rockly	0.00	0.00	0.00
Uhlig, dry	0.62	0.61	0.00
Rock outcrop	---	---	---
2090:			
Rockly	0.00	0.00	0.00
Tucannon	0.25	0.43	0.00
Rock outcrop	---	---	---
Rubble land	---	---	---
Speigle	0.00	0.00	0.00
Uhlig, dry	0.48	0.61	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
2160:			
Scoap	0.00	0.19	0.00
Rubble land	---	---	---
Rock outcrop	---	---	---
Northstar	0.00	0.00	0.00
Springdale	0.02	0.17	0.00
Wapal	0.00	0.16	0.00
3010:			
Alecanyon, very stony surface	0.00	0.00	0.00
Cheney	0.57	0.78	0.00
Rock outcrop	---	---	---
3015:			
Seaboldt, dry	0.41	0.53	0.00
Cheney	0.65	0.78	0.00
Uhlig, dry	0.68	0.67	0.00
Brincken, moist	0.74	0.80	0.00
Narcisse	0.75	0.64	0.00
Rock outcrop	---	---	---
3020:			
Bong	0.43	0.51	0.00
Marble	0.10	0.17	0.00
Phoebe, dry	0.65	0.67	0.00
Hardesty	0.00	0.70	0.66
Marblespring	0.09	0.18	0.00
3022:			
Bong, moist	0.47	0.56	0.00
Phoebe	0.71	0.73	0.00
Hagen	0.40	0.41	0.00
Marblespring	0.10	0.20	0.00
Hardesty	0.00	0.76	0.66
3024:			
Phoebe	0.71	0.73	0.00
Bong, moist	0.47	0.56	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3024:			
Marble	0.11	0.19	0.00
Hardesty	0.00	0.76	0.66
3025:			
Bong, moist	0.34	0.54	0.00
Marble	0.08	0.18	0.00
Phoebe	0.63	0.73	0.00
Spens	0.00	0.14	0.00
Hardesty	0.00	0.76	0.66
3026:			
Phoebe, dry	0.65	0.67	0.00
Bong	0.43	0.51	0.00
Marble	0.10	0.17	0.00
Hardesty	0.00	0.70	0.66
3030:			
Bonner	0.38	0.49	0.00
Scrabblers	0.39	0.42	0.00
Stien, very stony surface	0.10	0.11	0.00
Wapal	0.02	0.38	0.00
Eloika	0.64	0.75	0.00
Colburn	0.00	0.41	0.53
3031:			
Bonner	0.36	0.48	0.00
Wapal	0.01	0.38	0.00
Scrabblers	0.37	0.42	0.00
Stien, very stony surface	0.09	0.11	0.00
Eloika	0.64	0.75	0.00
3039:			
Alecanyon	0.00	0.00	0.00
Rockly	0.00	0.00	0.00
Cheney	0.59	0.71	0.00
Deno	0.53	0.61	0.00
Rock outcrop	---	---	---

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3039:			
Fourmound	0.63	0.74	0.00
Cocolalla	0.00	0.00	1.00
3040:			
Cheney	0.65	0.78	0.00
Alecanyon	0.00	0.00	0.00
Uhlig, dry	0.68	0.67	0.00
Rock outcrop	---	---	---
Rockly	0.00	0.00	0.00
Uhlig	0.68	0.67	0.00
3041:			
Alecanyon, very stony surface	0.00	0.00	0.00
Cheney	0.65	0.78	0.00
Uhlig, dry	0.68	0.67	0.00
Rockly	0.00	0.00	0.00
Rock outcrop	---	---	---
3042:			
Alecanyon, very stony surface	0.00	0.00	0.00
Cheney	0.59	0.71	0.00
Athena	0.72	0.72	0.00
Rock outcrop	---	---	---
Tucannon	0.43	0.48	0.00
Uhlig, dry	0.62	0.61	0.00
3044:			
Cheney	0.65	0.78	0.00
Uhlig, dry	0.68	0.67	0.00
Alecanyon	0.00	0.00	0.00
Cocolalla	0.00	0.00	1.00
Rock outcrop	---	---	---
Seaboldt, dry	0.41	0.53	0.00
Uhlig	0.68	0.67	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3045:			
Rockly	0.00	0.00	0.00
Deno	0.58	0.67	0.00
Cocolalla	0.00	0.00	1.00
Rock outcrop	---	---	---
Cheney	0.65	0.78	0.00
Seaboldt, dry	0.41	0.53	0.00
3046:			
Cheney	0.65	0.78	0.00
Seaboldt, dry	0.41	0.53	0.00
Rock outcrop	---	---	---
Rockly	0.00	0.00	0.00
Uhlig, dry	0.68	0.67	0.00
Cocolalla	0.00	0.00	1.00
Fourmound	0.69	0.81	0.00
3047:			
Rockly	0.00	0.00	0.00
Rock outcrop	---	---	---
Deno	0.53	0.61	0.00
Rock outcrop, cliffs	---	---	---
Cocolalla	0.00	0.00	1.00
Hardesty	0.00	0.63	0.66
Northstar	0.00	0.00	0.00
Speigle	0.00	0.00	0.00
3048:			
Rockly	0.00	0.00	0.00
Hardesty	0.00	0.63	0.66
Fourmound	0.63	0.74	0.00
Cocolalla	0.00	0.00	1.00
Rock outcrop	---	---	---
Northstar	0.00	0.00	0.00
Water	---	---	---

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3049:			
Rockly	0.00	0.00	0.00
Rock outcrop	---	---	---
Cocolalla	0.00	0.00	1.00
Rock outcrop, cliffs	---	---	---
Deno	0.53	0.61	0.00
Northstar	0.00	0.00	0.00
Speigle	0.00	0.00	0.00
Water	---	---	---
3054:			
Clayton	0.42	0.44	0.00
Clayton, silty subsoil	0.44	0.44	0.00
Hagen	0.40	0.41	0.00
Phoebe, dry	0.65	0.67	0.00
Marblespring	0.10	0.20	0.00
3055:			
Clayton	0.42	0.44	0.00
Hagen	0.31	0.42	0.00
Clayton, silty subsoil	0.44	0.44	0.00
Endoaquolls	0.00	0.00	0.67
Marblespring	0.09	0.20	0.00
3056:			
Hagen	0.40	0.41	0.00
Bong, moist	0.47	0.56	0.00
Marble	0.11	0.19	0.00
Clayton	0.42	0.44	0.00
Hardesty	0.00	0.76	0.66
Marblespring	0.10	0.20	0.00
3057:			
Hagen	0.40	0.41	0.00
Marble	0.11	0.19	0.00
Bong, moist	0.47	0.56	0.00
Hardesty	0.00	0.76	0.66

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3057:			
Marblespring	0.10	0.20	0.00
3060:			
Dearyton	0.00	0.57	0.00
Glenrose	0.99	0.95	0.00
Kramerhill	0.45	0.49	0.00
Bong, moist	0.47	0.56	0.00
Skalan	0.27	0.37	0.00
3061:			
Dearyton	0.00	0.57	0.00
Glenrose	0.99	0.95	0.00
Kramerhill	0.43	0.48	0.00
Bong, moist	0.47	0.56	0.00
Skalan	0.26	0.37	0.00
Endoaquolls	0.00	0.00	0.67
3062:			
Dearyton	0.00	0.55	0.00
Kramerhill	0.32	0.47	0.00
Skalan	0.19	0.36	0.00
Spokane	0.08	0.37	0.00
Rock outcrop	---	---	---
3070:			
Eloika	0.64	0.75	0.00
Kaniksu	0.33	0.34	0.00
Scrabblers	0.39	0.42	0.00
Colburn	0.00	0.41	0.53
Stien, very stony surface	0.10	0.11	0.00
Torboy	0.24	0.43	0.00
3071:			
Stien, very stony surface	0.10	0.11	0.00
Scrabblers	0.39	0.42	0.00
Wapal	0.02	0.38	0.00
Colburn	0.00	0.41	0.53

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3071:			
Torboy	0.24	0.43	0.00
3072:			
Stien, very stony surface	0.09	0.11	0.00
Scrabblers	0.38	0.42	0.00
Wapal	0.01	0.38	0.00
Colburn	0.00	0.41	0.53
Rock outcrop	---	---	---
Blackprince	0.04	0.35	0.00
3073:			
Stien, very stony surface	0.07	0.11	0.00
Rock outcrop	---	---	---
Blackprince	0.02	0.32	0.00
Scrabblers	0.39	0.42	0.00
Wapal	0.01	0.37	0.00
3074:			
Eloika, moist	0.62	0.72	0.00
Kaniksu	0.32	0.33	0.00
Scrabblers	0.39	0.42	0.00
Bonner	0.38	0.49	0.00
Colburn	0.00	0.41	0.53
Torboy	0.24	0.43	0.00
Fan Lake	0.00	0.80	0.00
Wolfeson	0.00	0.60	0.76
3080:			
Opportunity	0.25	0.58	0.00
Bong, moist	0.49	0.57	0.00
Garrison	0.25	0.40	0.00
Hardesty	0.00	0.78	0.66
Springdale	0.03	0.18	0.00
3081:			
Opportunity	0.25	0.58	0.00
Bong, moist	0.49	0.57	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3081:			
Garrison	0.25	0.40	0.00
Hardesty	0.00	0.78	0.66
Springdale	0.03	0.18	0.00
3082:			
Opportunity	0.24	0.58	0.00
Bong, moist	0.46	0.57	0.00
Garrison	0.24	0.40	0.00
Springdale	0.03	0.18	0.00
Hardesty	0.00	0.78	0.66
3083:			
Garrison	0.25	0.40	0.00
Bong, moist	0.49	0.57	0.00
Hardesty	0.00	0.78	0.66
Opportunity	0.25	0.58	0.00
Springdale	0.03	0.18	0.00
3084:			
Garrison	0.24	0.40	0.00
Bong, moist	0.49	0.57	0.00
Garrison, extremely stony surface	0.00	0.00	0.00
Opportunity	0.25	0.58	0.00
Springdale	0.03	0.18	0.00
3085:			
Garrison	0.18	0.38	0.00
Opportunity	0.25	0.57	0.00
Springdale	0.03	0.18	0.00
Urban land	---	---	---
3087:			
Garrison, extremely stony surface	0.00	0.00	0.00
Garrison	0.25	0.40	0.00
Bong, moist	0.49	0.57	0.00
Opportunity	0.25	0.58	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3087:			
Springdale	0.03	0.18	0.00
Urban land	---	---	---
3090:			
Glenrose	0.99	0.95	0.00
Larkin	0.57	0.92	0.00
Dearyton	0.00	0.57	0.00
Kramerhill	0.45	0.49	0.00
Uhlig	0.75	0.74	0.00
Endoaquolls	0.00	0.00	0.67
3091:			
Glenrose	0.86	0.95	0.00
Dearyton	0.00	0.57	0.00
Glenrose, cobbly surface	0.00	0.00	0.00
Kramerhill	0.40	0.49	0.00
Kruse	0.49	0.57	0.00
Larkin	0.50	0.92	0.00
Spokane	0.09	0.38	0.00
3101:			
Green Bluff	0.53	0.53	0.00
Blinn	0.15	0.18	0.00
Brincken, moist	0.83	0.90	0.00
Lakespring	0.00	0.45	0.00
Hoodoo	0.00	0.00	0.94
3102:			
Green Bluff	0.50	0.53	0.00
Bobbitt	0.00	0.00	0.00
Brincken, moist	0.79	0.90	0.00
Klickson	0.55	0.60	0.00
Lakespring	0.00	0.45	0.00
Hoodoo	0.00	0.00	0.94
Rock outcrop	---	---	---

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3110:			
Fourmound	0.73	0.86	0.00
Stutler	0.18	0.24	0.00
Hardesty	0.00	0.74	0.66
Seaboldt, warm	0.45	0.58	0.00
Rockly	0.00	0.00	0.00
Cocolalla	0.00	0.00	1.00
3112:			
Stutler, extremely bouldery surface	0.00	0.00	0.00
Rockly	0.00	0.00	0.00
Northstar	0.00	0.00	0.00
Cocolalla	0.00	0.00	1.00
Rock outcrop	---	---	---
Springdale	0.01	0.15	0.00
3113:			
Stutler	0.17	0.22	0.00
Springdale	0.01	0.14	0.00
Hardesty	0.00	0.70	0.66
Northstar	0.00	0.00	0.00
Rock outcrop	---	---	---
3114:			
Rockly	0.00	0.00	0.00
Fourmound	0.69	0.81	0.00
Northstar	0.00	0.00	0.00
Rock outcrop	---	---	---
Cocolalla	0.00	0.00	1.00
Water	---	---	---
3115:			
Northstar	0.00	0.00	0.00
Rock outcrop	---	---	---
Hardesty	0.00	0.70	0.66
Rockly	0.00	0.00	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3115:			
Rubble land	---	---	---
Cocolalla	0.00	0.00	1.00
Stutler	0.17	0.22	0.00
Klickson	0.52	0.56	0.00
3116:			
Northstar	0.00	0.00	0.00
Rockly	0.00	0.00	0.00
Fourmound	0.69	0.81	0.00
Rock outcrop	---	---	---
Cocolalla	0.00	0.00	1.00
Speigle	0.00	0.00	0.00
3117:			
Northstar	0.00	0.00	0.00
Rock outcrop	---	---	---
Rockly	0.00	0.00	0.00
Fourmound	0.69	0.81	0.00
Cocolalla	0.00	0.00	1.00
Rubble land	---	---	---
Speigle	0.00	0.00	0.00
3118:			
Rockly	0.00	0.00	0.00
Cocolalla	0.00	0.00	1.00
Fourmound	0.69	0.81	0.00
Northstar	0.00	0.00	0.00
Rock outcrop	---	---	---
Water	---	---	---
3120:			
Marble	0.11	0.19	0.00
Hagen	0.41	0.42	0.00
Hardesty	0.00	0.78	0.66
Marblespring	0.10	0.19	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3121:			
Marble	0.10	0.19	0.00
Marblespring	0.10	0.20	0.00
Bong	0.45	0.56	0.00
Hagen	0.40	0.41	0.00
Hardesty	0.00	0.76	0.66
3122:			
Marble	0.08	0.18	0.00
Marblespring	0.09	0.20	0.00
Hagen	0.31	0.41	0.00
Hardesty	0.00	0.76	0.66
Bong	0.37	0.56	0.00
Elmira	0.13	0.25	0.00
3123:			
Marble	0.00	0.12	0.00
Spens	0.00	0.06	0.00
Hagen	0.31	0.41	0.00
Spens, cool	0.00	0.08	0.00
Bong	0.15	0.43	0.00
Hardesty	0.00	0.76	0.66
3126:			
Rock outcrop	---	---	---
Northstar	0.00	0.00	0.00
Speigle	0.00	0.00	0.00
Fourmound	0.69	0.81	0.00
Rockly	0.00	0.00	0.00
Rubble land	---	---	---
3127:			
Marblespring	0.10	0.19	0.00
Marble	0.10	0.18	0.00
Hardesty	0.00	0.74	0.66
Phoebe	0.69	0.70	0.00
Spens	0.01	0.14	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3130:			
Phoebe	0.71	0.73	0.00
Clayton	0.42	0.44	0.00
Bong	0.47	0.56	0.00
Hardesty	0.00	0.76	0.66
3131:			
Phoebe	0.73	0.75	0.00
Bong	0.49	0.57	0.00
Clayton	0.43	0.45	0.00
Hardesty	0.00	0.78	0.66
3132:			
Bong, moist	0.46	0.57	0.00
Phoebe	0.73	0.75	0.00
Marble	0.10	0.19	0.00
Hardesty	0.00	0.78	0.00
3133:			
Phoebe, dry	0.59	0.61	0.00
Clayton	0.38	0.41	0.00
Bong	0.39	0.46	0.00
Hardesty	0.00	0.70	0.66
3134:			
Phoebe, dry	0.65	0.67	0.00
Bong	0.43	0.51	0.00
Clayton	0.38	0.41	0.00
Hardesty	0.00	0.70	0.00
3135:			
Bong	0.41	0.51	0.00
Phoebe, dry	0.62	0.67	0.00
Marble	0.09	0.17	0.00
Hardesty	0.00	0.70	0.00
3140:			
Springdale	0.01	0.15	0.00
Marble	0.10	0.18	0.00
Garrison	0.24	0.38	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3140:			
Hardesty	0.00	0.74	0.66
Opportunity	0.24	0.55	0.00
Springdale, stony surface	0.01	0.10	0.00
3141:			
Springdale	0.01	0.15	0.00
Marble	0.10	0.18	0.00
Spens	0.01	0.14	0.00
Garrison	0.24	0.38	0.00
Opportunity	0.24	0.55	0.00
Hardesty	0.00	0.74	0.66
3142:			
Spens	0.00	0.13	0.00
Marble	0.08	0.18	0.00
Springdale	0.01	0.15	0.00
Bong, moist	0.35	0.54	0.00
Hardesty	0.00	0.74	0.66
3143:			
Spens	0.00	0.06	0.00
Bong, moist	0.35	0.54	0.00
Marble	0.00	0.13	0.00
Springdale	0.01	0.15	0.00
Wapal	0.00	0.16	0.00
3144:			
Wapal	0.02	0.38	0.00
Bonner	0.38	0.49	0.00
Kaniksu	0.33	0.34	0.00
3145:			
Wapal	0.01	0.37	0.00
Scoap	0.22	0.45	0.00
Springdale	0.01	0.16	0.00
Elmira	0.12	0.24	0.00
Klickson	0.42	0.58	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3146:			
Scoap	0.00	0.21	0.00
Wapal	0.00	0.17	0.00
Elmira	0.00	0.11	0.00
Klickson	0.00	0.27	0.00
Rock outcrop	---	---	---
Rubble land	---	---	---
3147:			
Spens, cool	0.00	0.13	0.00
Marble	0.07	0.17	0.00
Springdale	0.01	0.14	0.00
Wapal	0.01	0.35	0.00
3148:			
Spens, cool	0.00	0.06	0.00
Elmira	0.00	0.15	0.00
Marble	0.00	0.11	0.00
Spens	0.00	0.06	0.00
Wapal	0.00	0.16	0.00
3200:			
Torboy	0.24	0.43	0.00
Colburn	0.00	0.41	0.53
Eloika	0.64	0.75	0.00
Scrabblers	0.39	0.42	0.00
3201:			
Torboy	0.38	0.48	0.00
Eloika	0.64	0.75	0.00
Scrabblers	0.39	0.42	0.00
Blackprince	0.04	0.35	0.00
3202:			
Torboy	0.24	0.43	0.00
Blackprince	0.03	0.35	0.00
Eloika	0.64	0.75	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3202:			
Scrabblers	0.39	0.42	0.00
Rock outcrop	---	---	---
3210:			
Kaniksu	0.33	0.34	0.00
Scrabblers	0.39	0.42	0.00
Torboy	0.24	0.43	0.00
Eloika	0.64	0.75	0.00
Colburn	0.00	0.41	0.53
Wolfeson	0.00	0.61	0.77
3211:			
Kaniksu	0.33	0.34	0.00
Scrabblers	0.39	0.42	0.00
Torboy	0.24	0.43	0.00
Colburn	0.00	0.41	0.53
Eloika	0.64	0.75	0.00
3212:			
Kaniksu, dry	0.43	0.41	0.00
Seaboldt	0.46	0.59	0.00
Stapaloop	0.58	0.57	0.00
Elmira	0.17	0.25	0.00
Kaniksu	0.33	0.34	0.00
Rock outcrop	---	---	---
3220:			
Stapaloop	0.58	0.57	0.00
Fan Lake	0.00	0.82	0.00
Kaniksu, dry	0.43	0.41	0.00
Scrabblers	0.39	0.42	0.00
Wolfeson	0.00	0.61	0.77
3221:			
Stapaloop	0.58	0.57	0.00
Kaniksu, dry	0.43	0.41	0.00
Fan Lake	0.00	0.82	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3221:			
Torboy	0.24	0.43	0.00
Kaniksu	0.32	0.34	0.00
3222:			
Stapaloop	0.58	0.57	0.00
Seaboldt	0.46	0.59	0.00
Kaniksu, dry	0.43	0.41	0.00
Fan Lake	0.00	0.82	0.00
Rock outcrop	---	---	---
3300:			
Scrabblers	0.39	0.42	0.00
Eloika	0.64	0.75	0.00
Kaniksu, dry	0.43	0.41	0.00
Colburn	0.00	0.41	0.53
Torboy	0.24	0.43	0.00
3301:			
Scrabblers	0.39	0.42	0.00
Kaniksu, dry	0.43	0.41	0.00
Colburn	0.00	0.41	0.53
Eloika	0.64	0.75	0.00
Elmira	0.17	0.25	0.00
Kaniksu	0.33	0.34	0.00
3302:			
Scrabblers	0.39	0.42	0.00
Blackprince	0.03	0.35	0.00
Torboy	0.24	0.43	0.00
Eloika	0.64	0.75	0.00
Eloika, moist	0.64	0.75	0.00
3303:			
Scrabblers	0.39	0.42	0.00
Torboy	0.24	0.43	0.00
Kaniksu, dry	0.43	0.41	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3303:			
Eloika	0.64	0.75	0.00
Colburn	0.00	0.41	0.53
3401:			
Elmira	0.17	0.25	0.00
Hagen	0.41	0.42	0.00
Scrabblers	0.39	0.42	0.00
Colburn	0.00	0.41	0.53
3402:			
Elmira	0.12	0.24	0.00
Hagen	0.36	0.42	0.00
Stapaloop	0.51	0.57	0.00
Scrabblers	0.37	0.42	0.00
Colburn	0.00	0.41	0.53
3403:			
Elmira	0.00	0.11	0.00
Hagen	0.31	0.42	0.00
Scrabblers	0.37	0.42	0.00
Colburn	0.00	0.41	0.53
3404:			
Elmira	0.15	0.25	0.00
Seaboldt	0.46	0.59	0.00
Kaniksu, dry	0.43	0.41	0.00
Marble	0.09	0.19	0.00
Rock outcrop	---	---	---
3500:			
Uhlig	0.75	0.74	0.00
Bong, moist	0.47	0.56	0.00
Narcisse	0.82	0.70	0.00
Hardesty	0.00	0.76	0.66
3501:			
Brincken, moist	0.83	0.90	0.00
Uhlig	0.77	0.75	0.00
Fourmound	0.77	0.91	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3501:			
Seaboldt	0.46	0.59	0.00
Nez Perce	0.00	0.93	0.38
3502:			
Brincken, moist	0.79	0.90	0.00
Fourmound	0.77	0.91	0.00
Speigle	0.00	0.00	0.00
Bobbitt	0.00	0.00	0.00
Rock outcrop	---	---	---
3503:			
Uhlig, dry	0.68	0.67	0.00
Bong	0.43	0.51	0.00
Cheney	0.65	0.78	0.00
Narcisse	0.79	0.67	0.00
Deno	0.58	0.67	0.00
Seaboldt, dry	0.41	0.53	0.00
3504:			
Brincken	0.74	0.80	0.00
Reardan	0.55	0.73	0.00
Athena	0.79	0.79	0.00
Cheney	0.65	0.78	0.00
Uhlig, dry	0.68	0.67	0.00
Tucannon	0.47	0.53	0.00
Narcisse	0.79	0.67	0.00
3505:			
Seaboldt, warm	0.45	0.58	0.00
Brincken, moist	0.81	0.88	0.00
Nez Perce	0.00	0.91	0.38
Uhlig	0.75	0.74	0.00
Urban land	---	---	---
3600:			
Seaboldt	0.46	0.59	0.00
Uhlig	0.77	0.75	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
3600:			
Rockly	0.00	0.00	0.00
Brincken, moist	0.83	0.90	0.00
Fourmound	0.77	0.91	0.00
Phoebe	0.73	0.75	0.00
Narcisse	0.84	0.71	0.00
3601:			
Seaboldt	0.43	0.59	0.00
Fourmound	0.77	0.91	0.00
Northstar	0.00	0.00	0.00
Uhlig	0.77	0.75	0.00
Phoebe	0.73	0.75	0.00
4000:			
Hunters	0.85	0.85	0.00
Cedonia	0.79	0.80	0.00
Peone	0.00	0.24	0.96
Lakespring	0.00	0.45	0.00
4001:			
Cedonia	0.79	0.80	0.00
Green Bluff	0.53	0.53	0.00
Lakespring	0.00	0.45	0.00
Hunters	0.87	0.86	0.00
Peone	0.00	0.24	0.96
4002:			
Cedonia	0.69	0.80	0.00
Lakespring	0.00	0.45	0.00
Peone	0.00	0.24	0.96
Green Bluff	0.50	0.53	0.00
Hunters	0.82	0.86	0.00
4031:			
Lakespring	0.00	0.45	0.00
Brincken, moist	0.83	0.90	0.00
Cedonia	0.79	0.80	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
4031:			
Green Bluff	0.53	0.53	0.00
Dearyton	0.00	0.57	0.00
Speigle	0.00	0.00	0.00
4032:			
Lakespring	0.00	0.45	0.00
Spokane	0.09	0.38	0.00
Brincken, moist	0.73	0.90	0.00
Dearyton	0.00	0.57	0.00
Marble	0.09	0.19	0.00
Speigle	0.00	0.00	0.00
Rock outcrop	---	---	---
4033:			
Lakespring	0.00	0.45	0.00
Brincken, moist	0.73	0.90	0.00
Speigle	0.00	0.00	0.00
Dearyton	0.00	0.57	0.00
Rock outcrop	---	---	---
4040:			
Wolfeson	0.00	0.60	0.00
Fan Lake	0.00	0.82	0.00
Stapaloop	0.58	0.57	0.00
Bridgeson	0.00	0.71	1.00
4041:			
Wolfeson	0.00	0.61	0.00
Fan Lake	0.00	0.82	0.00
Bridgeson	0.00	0.71	1.00
Stapaloop	0.58	0.57	0.00
4050:			
Fan Lake	0.00	0.82	0.00
Green Bluff	0.53	0.53	0.00
Klickson	0.51	0.60	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
4050:			
Wolfeson	0.00	0.60	0.00
Kronquist	0.00	0.84	1.00
4051:			
Fan Lake	0.00	0.82	0.00
Klickson	0.45	0.60	0.00
Kruse	0.49	0.57	0.00
Blinn, stony surface	0.08	0.13	0.00
Kronquist	0.00	0.84	1.00
Quinnamose	0.32	0.44	0.00
5001:			
Brickel	0.01	0.02	0.00
Vaywood	0.02	0.03	0.00
Bouldercreek	0.05	0.07	0.00
Brevco	0.01	0.02	0.00
Rock outcrop	---	---	---
5023:			
Micapeak	0.31	0.36	0.00
Rock outcrop	---	---	---
Quinnamose	0.39	0.43	0.00
Clayton	0.43	0.45	0.00
Lenz	0.02	0.19	0.00
Spokane	0.11	0.38	0.00
5024:			
Micapeak	0.25	0.39	0.00
Rock outcrop	---	---	---
Quinnamose	0.26	0.38	0.00
Brevco	0.03	0.24	0.00
Lenz	0.01	0.17	0.00
Spokane	0.08	0.37	0.00
5025:			
Micapeak	0.00	0.18	0.00
Rock outcrop	---	---	---

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5025:			
Quinnamose	0.00	0.24	0.00
Brevco	0.00	0.15	0.00
Lenz	0.00	0.10	0.00
Spokane	0.00	0.21	0.00
5026:			
Micapeak	0.25	0.39	0.00
Spokane	0.08	0.37	0.00
Quinnamose	0.26	0.38	0.00
Brevco	0.03	0.24	0.00
Clayton	0.37	0.45	0.00
Lenz	0.01	0.14	0.00
Rock outcrop	---	---	---
5027:			
Micapeak	0.00	0.18	0.00
Spokane	0.00	0.21	0.00
Brevco	0.00	0.15	0.00
Quinnamose	0.00	0.24	0.00
Lenz	0.00	0.08	0.00
Rock outcrop	---	---	---
5037:			
Spokane	0.00	0.21	0.00
Rock outcrop	---	---	---
Lenz	0.00	0.08	0.00
Brevco	0.00	0.15	0.00
Kramerhill	0.14	0.38	0.00
Micapeak	0.00	0.18	0.00
Spens	0.00	0.06	0.00
5040:			
Spokane	0.12	0.38	0.00
Swakane	0.00	0.00	0.00
Kramerhill	0.45	0.49	0.00
Bong, moist	0.49	0.57	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5040:			
Lenz	0.02	0.19	0.00
Rock outcrop	---	---	---
5041:			
Spokane	0.08	0.37	0.00
Swakane	0.00	0.00	0.00
Kramerhill	0.35	0.49	0.00
Lenz	0.01	0.17	0.00
Micapeak	0.25	0.39	0.00
Rock outcrop	---	---	---
5053:			
Jacot, dry	0.00	0.27	0.00
Micapeak	0.00	0.13	0.00
Hysing, dry	0.00	0.35	0.00
Jacot	0.00	0.20	0.00
Boulderjud, dry	0.00	0.18	0.00
Boulderjud	0.00	0.15	0.00
Rock outcrop	---	---	---
5060:			
Bouldercreek, moist	0.39	0.37	0.00
Boulderjud	0.35	0.41	0.00
Lakestarr	0.00	0.58	0.00
Nakarna	0.34	0.39	0.00
Hoodoo	0.00	0.00	0.94
5061:			
Nakarna	0.21	0.29	0.00
Nakarna, dry	0.27	0.44	0.00
Kruse	0.34	0.39	0.00
Bouldercreek	0.21	0.30	0.00
Lakestarr	0.00	0.75	0.00
Quinnamose	0.27	0.36	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5062:			
Nakarna	0.00	0.14	0.00
Bouldercreek	0.00	0.14	0.00
Kruse	0.12	0.30	0.00
Nakarna, dry	0.00	0.20	0.00
Quinnamose	0.00	0.17	0.00
5067:			
Quinnamose	0.29	0.39	0.00
Micapeak	0.20	0.34	0.00
Blackprince	0.02	0.31	0.00
Jacot, dry	0.43	0.61	0.00
Kruse	0.46	0.53	0.00
5068:			
Quinnamose	0.00	0.23	0.00
Micapeak	0.00	0.20	0.00
Blackprince	0.00	0.15	0.00
Jacot, dry	0.00	0.38	0.00
Kruse	0.17	0.41	0.00
5070:			
Lenz	0.02	0.19	0.00
Spokane	0.12	0.38	0.00
Kramerhill	0.45	0.49	0.00
Micapeak	0.31	0.36	0.00
Swakane	0.00	0.00	0.00
Skalan	0.24	0.37	0.00
Rock outcrop	---	---	---
5071:			
Lenz	0.01	0.18	0.00
Spokane	0.08	0.37	0.00
Brevco	0.04	0.26	0.00
Kramerhill	0.35	0.49	0.00
Micapeak	0.22	0.36	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5071:			
Swakane	0.00	0.00	0.00
Rock outcrop	---	---	---
5072:			
Lenz	0.02	0.19	0.00
Rock outcrop	---	---	---
Swakane	0.00	0.00	0.00
Spokane	0.12	0.38	0.00
Clayton	0.43	0.45	0.00
Micapeak	0.31	0.36	0.00
Hardesty	0.00	0.78	0.66
5073:			
Lenz	0.01	0.18	0.00
Rock outcrop	---	---	---
Swakane	0.00	0.00	0.00
Spokane	0.08	0.37	0.00
Micapeak	0.22	0.36	0.00
5074:			
Lenz	0.00	0.08	0.00
Rock outcrop	---	---	---
Spokane	0.00	0.17	0.00
Swakane	0.00	0.00	0.00
Brevco	0.00	0.12	0.00
Micapeak	0.00	0.16	0.00
5080:			
Vaywood	0.02	0.03	0.00
Vay	0.01	0.03	0.00
Brevco	0.01	0.03	0.00
Brickel	0.01	0.02	0.00
Rock outcrop	---	---	---
5081:			
Vaywood	0.00	0.01	0.00
Bouldercreek	0.00	0.06	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5081:			
Vay	0.00	0.01	0.00
Brickel	0.01	0.02	0.00
Rock outcrop	---	---	---
5090:			
Brevco	0.05	0.24	0.00
Ardtoo	0.13	0.20	0.00
Blackprince	0.03	0.32	0.00
Kellerbutte	0.26	0.31	0.00
Rock outcrop	---	---	---
5091:			
Brevco	0.04	0.25	0.00
Ardtoo	0.10	0.21	0.00
Blackprince	0.02	0.31	0.00
Kellerbutte	0.25	0.33	0.00
Quinnamose	0.29	0.39	0.00
Rock outcrop	---	---	---
5092:			
Brevco	0.00	0.12	0.00
Rock outcrop	---	---	---
Ardtoo	0.00	0.10	0.00
Blackprince	0.00	0.15	0.00
Quinnamose	0.00	0.18	0.00
5093:			
Blackprince	0.02	0.27	0.00
Ardtoo	0.10	0.19	0.00
Brevco	0.04	0.24	0.00
Boulderjud	0.30	0.42	0.00
Boulderjud, dry	0.21	0.32	0.00
Rock outcrop	---	---	---
5094:			
Blackprince	0.00	0.12	0.00
Ardtoo	0.00	0.09	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5094:			
Boulderjud, dry	0.00	0.15	0.00
Boulderjud	0.00	0.19	0.00
Brevco	0.00	0.11	0.00
Rock outcrop	---	---	---
5102:			
Boulderjud	0.17	0.25	0.00
Boulderjud, dry	0.23	0.33	0.00
Jacot	0.23	0.30	0.00
Ardtoo	0.06	0.13	0.00
Bouldercreek	0.15	0.21	0.00
Rock outcrop	---	---	---
5103:			
Boulderjud	0.00	0.12	0.00
Boulderjud, dry	0.00	0.15	0.00
Jacot	0.00	0.21	0.00
Ardtoo	0.00	0.06	0.00
Bouldercreek	0.00	0.10	0.00
Rock outcrop	---	---	---
5104:			
Boulderjud, dry	0.21	0.32	0.00
Ardtoo	0.06	0.13	0.00
Boulderjud	0.20	0.30	0.00
Jacot, dry	0.37	0.49	0.00
Blackprince	0.02	0.29	0.00
Rock outcrop	---	---	---
5105:			
Boulderjud, dry	0.00	0.15	0.00
Ardtoo	0.00	0.06	0.00
Boulderjud	0.00	0.14	0.00
Jacot, dry	0.00	0.35	0.00
Blackprince	0.00	0.14	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5105:			
Bouldercreek	0.00	0.10	0.00
Rock outcrop	---	---	---
5110:			
Bouldercreek	0.15	0.21	0.00
Boulderjud	0.20	0.30	0.00
Kellerbutte	0.15	0.21	0.00
Rock outcrop	---	---	---
5111:			
Bouldercreek	0.00	0.10	0.00
Nakarna	0.00	0.19	0.00
Boulderjud	0.00	0.14	0.00
Kellerbutte	0.00	0.10	0.00
Rock outcrop	---	---	---
5112:			
Bouldercreek, dry	0.32	0.43	0.00
Bouldercreek	0.15	0.21	0.00
Brevco	0.03	0.18	0.00
Jacot	0.25	0.35	0.00
Kellerbutte	0.15	0.21	0.00
Rock outcrop	---	---	---
5113:			
Bouldercreek, dry	0.00	0.20	0.00
Kellerbutte	0.00	0.10	0.00
Bouldercreek	0.00	0.10	0.00
Brevco	0.00	0.08	0.00
Jacot	0.00	0.22	0.00
Rock outcrop	---	---	---
5114:			
Bouldercreek	0.00	0.00	0.00
Rock outcrop	---	---	---
Bouldercreek, dry	0.00	0.00	0.00
Brevco	0.00	0.11	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5114:			
Jacot	0.00	0.22	0.00
Kellerbutte	0.00	0.10	0.00
5120:			
Kellerbutte	0.20	0.29	0.00
Boulderjud	0.28	0.41	0.00
Jacot	0.37	0.49	0.00
Micapeak	0.20	0.32	0.00
Kruse	0.43	0.49	0.00
Nakarna	0.21	0.29	0.00
Brevco	0.03	0.22	0.00
5121:			
Kellerbutte	0.21	0.30	0.00
Brevco	0.03	0.22	0.00
Ardtoo	0.10	0.19	0.00
Boulderjud	0.28	0.41	0.00
Rock outcrop	---	---	---
5122:			
Kellerbutte	0.00	0.14	0.00
Brevco	0.00	0.11	0.00
Ardtoo	0.00	0.09	0.00
Boulderjud	0.00	0.19	0.00
Rock outcrop	---	---	---
5123:			
Kellerbutte	0.00	0.10	0.00
Boulderjud, dry	0.00	0.15	0.00
Blackprince	0.00	0.10	0.00
Ardtoo	0.00	0.09	0.00
Boulderjud	0.00	0.14	0.00
Jacot	0.00	0.22	0.00
5130:			
Brodeer	0.39	0.40	0.00
Jacot	0.35	0.36	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5130:			
Jacot, dry	0.48	0.49	0.00
Kruse	0.42	0.44	0.00
Lakestarr	0.00	0.56	0.00
5140:			
Jacot, dry	0.48	0.49	0.00
Hysing, dry	0.51	0.57	0.00
Brodeer	0.39	0.40	0.00
Jacot	0.35	0.36	0.00
Kruse	0.34	0.36	0.00
5141:			
Jacot	0.25	0.35	0.00
Hysing	0.27	0.40	0.00
Boulderjud	0.20	0.30	0.00
Jacot, dry	0.28	0.45	0.00
Brodeer	0.39	0.40	0.00
5142:			
Jacot	0.00	0.20	0.00
Hysing	0.00	0.23	0.00
Boulderjud	0.00	0.14	0.00
Jacot, dry	0.00	0.27	0.00
Hysing, dry	0.00	0.32	0.00
5143:			
Jacot, dry	0.34	0.48	0.00
Hysing, dry	0.37	0.56	0.00
Boulderjud	0.20	0.30	0.00
Jacot	0.25	0.35	0.00
Boulderjud, dry	0.21	0.32	0.00
5144:			
Jacot, dry	0.00	0.27	0.00
Hysing, dry	0.00	0.32	0.00
Boulderjud	0.00	0.17	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5144:			
Boulderjud, dry	0.00	0.18	0.00
Jacot	0.00	0.20	0.00
5211:			
Kruse	0.47	0.49	0.00
Keeler, dry	0.26	0.30	0.00
Micapeak	0.27	0.33	0.00
Kramerhill	0.45	0.49	0.00
5212:			
Kruse	0.35	0.48	0.00
Keeler	0.21	0.29	0.00
Micapeak	0.20	0.32	0.00
Quinnamose	0.27	0.36	0.00
5213:			
Kruse	0.00	0.30	0.00
Keeler, dry	0.00	0.18	0.00
Micapeak	0.00	0.16	0.00
Quinnamose	0.00	0.18	0.00
Boulderjud	0.00	0.19	0.00
5310:			
Kramerhill	0.44	0.47	0.00
Spokane	0.11	0.38	0.00
Swakane	0.00	0.00	0.00
Clayton	0.42	0.44	0.00
Lenz	0.02	0.18	0.00
5313:			
Kramerhill	0.38	0.49	0.00
Spokane	0.10	0.38	0.00
Skalan	0.24	0.37	0.00
Lenz	0.01	0.19	0.00
Clayton	0.43	0.45	0.00
Micapeak	0.27	0.37	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5313:			
Kruse	0.52	0.55	0.00
Rock outcrop	---	---	---
5314:			
Spokane	0.02	0.28	0.00
Kramerhill	0.14	0.38	0.00
Lenz	0.00	0.13	0.00
Skalan	0.00	0.26	0.00
Rock outcrop	---	---	---
Micapeak	0.10	0.28	0.00
5321:			
Kramerhill	0.40	0.49	0.00
Uhlig	0.77	0.75	0.00
Skalan	0.24	0.37	0.00
Glenrose	0.99	0.95	0.00
Bong, moist	0.49	0.57	0.00
Endoaquolls, deep	0.00	0.00	0.00
5322:			
Kramerhill	0.27	0.44	0.00
Skalan	0.09	0.29	0.00
Spokane	0.04	0.30	0.00
Uhlig	0.77	0.75	0.00
Endoaquolls, deep	0.00	0.00	0.00
Rock outcrop	---	---	---
5412:			
Keeler	0.27	0.28	0.00
Kruse	0.47	0.49	0.00
Micapeak	0.26	0.31	0.00
Santa	0.00	0.55	0.00
Kronquist	0.00	0.84	1.00
Lakestarr	0.00	0.69	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5413:			
Keeler	0.19	0.27	0.00
Kruse	0.35	0.48	0.00
Bouldercreek, dry	0.42	0.57	0.00
Lakestarr	0.00	0.74	0.00
Micapeak	0.16	0.28	0.00
5414:			
Keeler	0.00	0.17	0.00
Kruse	0.00	0.22	0.00
Lakestarr	0.00	0.74	0.00
Micapeak	0.00	0.14	0.00
Bouldercreek	0.00	0.16	0.00
5512:			
Santa	0.00	0.65	0.00
Cavendish	0.29	0.54	0.00
Crumarine	0.00	0.78	0.83
Reggear	0.00	0.64	0.00
Santa, dry	0.00	0.68	0.00
5513:			
Santa	0.00	0.58	0.00
Kruse	0.31	0.48	0.00
Taney	0.00	0.81	0.00
5602:			
Lakestarr	0.00	0.56	0.00
Santa	0.00	0.55	0.00
Keeler	0.28	0.30	0.00
Kruse	0.47	0.49	0.00
Lakestarr, dry	0.00	0.85	0.00
Fluvaquents, frigid	0.00	0.00	0.11
Lovell	0.00	0.59	0.77
5603:			
Lakestarr	0.00	0.54	0.00
Santa	0.00	0.61	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
5603:			
Keeler	0.18	0.26	0.00
Kruse	0.37	0.52	0.00
Bouldercreek	0.21	0.35	0.00
Lakestarr, dry	0.00	0.85	0.00
Taney	0.00	0.82	0.00
6001:			
Athena	0.72	0.72	0.00
Broadax	0.71	0.71	0.00
Lance	0.31	0.28	0.00
Mondovi	0.81	0.68	0.09
Caldwell	0.00	0.79	1.00
Narcisse	0.79	0.67	0.00
6002:			
Athena	0.75	0.79	0.00
Lance	0.32	0.30	0.00
Reardan	0.55	0.73	0.00
Hanning	0.83	0.87	0.00
Caldwell	0.00	0.79	1.00
Narcisse	0.79	0.67	0.00
Mondovi	0.81	0.68	0.09
6003:			
Athena	0.61	0.79	0.00
Lance	0.20	0.27	0.00
Reardan	0.55	0.73	0.00
Staley	0.50	0.67	0.00
Hanning	0.66	0.87	0.00
Caldwell	0.00	0.79	1.00
Mondovi	0.89	0.75	0.09
6004:			
Athena	0.00	0.32	0.00
Lance	0.00	0.12	0.00
Reardan	0.50	0.67	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
6004:			
Staley	0.00	0.29	0.00
Hanning	0.00	0.35	0.00
Broadax	0.23	0.55	0.00
6010:			
Freeman	0.00	0.74	0.00
Driscoll	0.00	0.96	0.00
Larkin	0.57	0.92	0.00
Carlinton, dry	0.00	0.79	0.00
Santa	0.00	0.62	0.00
Lovell	0.00	0.65	0.77
Aquepts, frigid	0.00	0.17	0.91
6011:			
Freeman	0.00	0.74	0.00
Carlinton, dry	0.00	0.79	0.00
Driscoll	0.00	0.96	0.00
Larkin	0.57	0.92	0.00
Lovell	0.00	0.65	0.77
Endoaquolls	0.00	0.00	0.67
6012:			
Freeman	0.00	0.74	0.00
Carlinton, dry	0.00	0.79	0.00
Driscoll	0.00	0.96	0.00
Taney	0.00	0.83	0.00
Lovell	0.00	0.65	0.77
Santa	0.00	0.62	0.00
6021:			
Garfield	0.62	0.68	0.00
Naff	0.82	0.94	0.00
Athena	0.84	0.84	0.00
Thatuna	0.68	0.94	0.00
Staley	0.73	0.71	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
6031:			
Staley	0.61	0.71	0.00
Naff	0.82	0.94	0.00
Lance	0.28	0.32	0.00
Broadax	0.73	0.83	0.00
Garfield	0.70	0.68	0.00
6040:			
Larkin	0.57	0.92	0.00
Freeman	0.00	0.74	0.00
Driscoll	0.00	0.96	0.00
Glenrose	0.99	0.95	0.00
Southwick	0.60	1.00	0.00
Caldwell	0.00	0.84	1.00
6041:			
Larkin	0.55	0.92	0.00
Southwick	0.58	1.00	0.00
Freeman	0.00	0.74	0.00
Caldwell	0.00	0.84	1.00
Driscoll	0.00	0.96	0.00
Endoaquolls	0.00	0.00	0.67
Glenrose	0.94	0.95	0.00
6042:			
Larkin	0.40	0.89	0.00
Southwick	0.43	0.97	0.00
Driscoll	0.00	0.96	0.00
Freeman	0.00	0.74	0.00
Gibbs	0.63	0.73	0.00
Glenrose	0.70	0.93	0.00
Caldwell	0.00	0.84	1.00
6043:			
Larkin	0.57	0.92	0.00
Driscoll	0.00	0.96	0.00
Southwick	0.60	1.00	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
6043:			
Caldwell	0.00	0.84	1.00
Freeman	0.00	0.74	0.00
Glenrose	0.99	0.95	0.00
6045:			
Southwick	0.43	0.97	0.00
Larkin	0.40	0.89	0.00
Driscoll	0.00	0.96	0.00
Freeman	0.00	0.74	0.00
Glenrose	0.70	0.93	0.00
Caldwell	0.00	0.84	1.00
6050:			
Tilma	0.00	0.97	0.00
Latah	0.00	0.80	1.00
Caldwell	0.00	0.84	1.00
Thatuna	0.98	0.99	0.00
Naff	0.95	0.96	0.00
Cald	0.00	0.25	1.00
6061:			
Naff	0.95	0.96	0.00
Staley	0.74	0.73	0.00
Thatuna	0.98	0.99	0.00
Broadax	0.83	0.83	0.00
Garfield	0.72	0.69	0.00
Caldwell	0.00	0.84	1.00
Glenrose	0.99	0.95	0.00
6062:			
Naff	0.83	0.96	0.00
Thatuna	0.86	0.99	0.00
Garfield	0.72	0.69	0.00
Athena	0.84	0.84	0.00
Staley	0.74	0.73	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
6062:			
Cald	0.00	0.25	1.00
Caldwell	0.00	0.84	1.00
6064:			
Naff	0.93	0.96	0.00
Athena	0.84	0.84	0.00
Garfield	0.72	0.69	0.00
Staley	0.74	0.73	0.00
Thatuna	0.95	0.99	0.00
Caldwell	0.00	0.84	1.00
Cald	0.00	0.25	1.00
6067:			
Naff	0.95	0.96	0.00
Garfield	0.72	0.69	0.00
Thatuna	0.98	0.99	0.00
Athena	0.84	0.84	0.00
Caldwell	0.00	0.84	1.00
Cald	0.00	0.25	1.00
Staley	0.74	0.73	0.00
6068:			
Naff	0.74	0.96	0.00
Garfield	0.56	0.69	0.00
Thatuna	0.76	0.99	0.00
Athena	0.84	0.84	0.00
Caldwell	0.00	0.84	1.00
Staley	0.74	0.73	0.00
6072:			
Hanning	0.76	0.79	0.00
Athena	0.72	0.72	0.00
Lance	0.27	0.28	0.00
Reardan	0.50	0.67	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
6073:			
Hanning	0.61	0.84	0.00
Lance	0.24	0.29	0.00
Athena	0.61	0.79	0.00
Mondovi	0.89	0.75	0.09
Reardan	0.55	0.73	0.00
6074:			
Hanning	0.00	0.39	0.00
Athena	0.00	0.35	0.00
Lance	0.00	0.14	0.00
Reardan	0.55	0.73	0.00
6080:			
Nez Perce	0.00	0.93	0.00
Brincken, moist	0.83	0.90	0.00
Lakespring	0.00	0.45	0.00
Uhlig	0.77	0.75	0.00
6093:			
Reardan	0.55	0.73	0.00
Athena	0.79	0.79	0.00
Broadax	0.78	0.78	0.00
Lance	0.34	0.30	0.00
Hanning	0.85	0.87	0.00
Caldwell	0.00	0.75	1.00
6094:			
Reardan	0.55	0.73	0.00
Hanning	0.85	0.87	0.00
Broadax	0.78	0.78	0.00
Lance	0.32	0.30	0.00
Caldwell	0.00	0.75	1.00
Athena	0.79	0.79	0.00
6096:			
Broadax	0.69	0.78	0.00
Reardan	0.55	0.73	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
6096:			
Lance	0.32	0.30	0.00
Athena	0.69	0.79	0.00
Caldwell	0.00	0.75	1.00
Hanning	0.75	0.87	0.00
6110:			
Broadax	0.78	0.78	0.00
Athena	0.79	0.79	0.00
Lance	0.34	0.30	0.00
Reardan	0.55	0.73	0.00
Caldwell	0.00	0.75	1.00
Hanning	0.85	0.87	0.00
6111:			
Broadax	0.81	0.83	0.00
Athena	0.82	0.84	0.00
Reardan	0.58	0.77	0.00
Lance	0.36	0.32	0.00
Caldwell	0.00	0.79	1.00
Naff	0.90	0.90	0.00
Hanning	0.90	0.92	0.00
6112:			
Broadax	0.59	0.81	0.00
Athena	0.60	0.82	0.00
Lance	0.25	0.31	0.00
Reardan	0.58	0.77	0.00
Naff	0.70	0.90	0.00
Caldwell	0.00	0.79	1.00
6130:			
Thatuna	0.95	0.99	0.00
Naff	0.93	0.96	0.00
Athena	0.84	0.84	0.00
Garfield	0.72	0.69	0.00
Caldwell	0.00	0.84	1.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
6131:			
Thatuna	0.70	0.96	0.00
Naff	0.68	0.93	0.00
Athena	0.65	0.84	0.00
Garfield	0.72	0.69	0.00
Caldwell	0.00	0.84	1.00
Cald	0.00	0.25	1.00
6140:			
Driscoll	0.00	0.96	0.00
Larkin	0.57	0.92	0.00
Southwick	0.60	1.00	0.00
Bobbitt	0.00	0.00	0.00
Gibbs	0.63	0.73	0.00
6141:			
Driscoll	0.00	0.96	0.00
Larkin	0.55	0.92	0.00
Southwick	0.60	1.00	0.00
Cald	0.00	0.25	1.00
Glenrose	0.94	0.95	0.00
Latah	0.00	0.80	1.00
6200:			
Morical	0.32	0.54	0.00
Glenrose	0.93	0.90	0.00
Kramerhill	0.40	0.43	0.00
Reardan	0.55	0.73	0.00
Swakane	0.00	0.00	0.00
Athena	0.79	0.79	0.00
6201:			
Morical	0.23	0.53	0.00
Athena	0.56	0.77	0.00
Dearyton	0.00	0.52	0.00
Glenrose	0.66	0.88	0.00
Kramerhill	0.29	0.42	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7090:			
Urban land	---	---	---
Lenz, disturbed	0.03	0.24	0.00
Spokane, disturbed	0.18	0.43	0.00
Swakane, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
7091:			
Urban land	---	---	---
Lenz, disturbed	0.02	0.23	0.00
Spokane, disturbed	0.12	0.41	0.00
Swakane, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
7101:			
Pits	---	---	---
Dumps	---	---	---
7102:			
Riverwash	---	---	---
7103:			
Xerolls, warm, mass wasted	0.00	0.00	0.00
Bobbitt	0.00	0.00	0.00
Brincken, moist, mass wasted	0.73	0.90	0.00
Dearyton	0.00	0.57	0.00
Lakespring	0.00	0.45	0.00
Speigle, mass wasted	0.00	0.00	0.00
Rock outcrop	---	---	---
7104:			
Xerolls, cool, mass wasted	0.00	0.00	0.00
Fan Lake	0.00	0.82	0.00
Klickson, mass wasted	0.51	0.60	0.00
Lakespring	0.00	0.45	0.00
Green Bluff	0.53	0.53	0.00
Blinn, stony surface	0.08	0.13	0.00
Elmira	0.15	0.25	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7104:			
Kronquist	0.00	0.84	1.00
Rock outcrop	---	---	---
7105:			
Urban land, gravelly substratum	---	---	---
Opportunity, disturbed	0.24	0.55	0.00
Marble, disturbed	0.12	0.21	0.00
7106:			
Urban land, gravelly substratum	---	---	---
Marble, disturbed	0.12	0.21	0.00
Marblespring, disturbed	0.10	0.20	0.00
7107:			
Urban land, basalt bedrock substratum	---	---	---
Northstar, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
7110:			
Urban land	---	---	---
Opportunity, disturbed	0.25	0.57	0.00
Bong, moist, disturbed	0.47	0.56	0.00
Garrison, disturbed	0.25	0.39	0.00
Hardesty, disturbed	0.00	0.76	0.66
Marblespring, disturbed	0.10	0.20	0.00
Springdale, disturbed	0.01	0.18	0.00
7111:			
Urban land	---	---	---
Opportunity, disturbed	0.25	0.57	0.00
Bong, moist, disturbed	0.47	0.56	0.00
Garrison, disturbed	0.25	0.39	0.00
Hardesty, disturbed	0.00	0.76	0.66
Marblespring, disturbed	0.10	0.20	0.00
Springdale, disturbed	0.01	0.18	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7112:			
Urban land	---	---	---
Opportunity, disturbed	0.25	0.57	0.00
Bong, moist, disturbed	0.47	0.56	0.00
Garrison, disturbed	0.25	0.39	0.00
Hardesty, disturbed	0.00	0.76	0.66
Marblespring, disturbed	0.10	0.20	0.00
Springdale, disturbed	0.01	0.18	0.00
7115:			
Urban land	---	---	---
Marblespring, disturbed	0.10	0.20	0.00
Marble, disturbed	0.13	0.21	0.00
Opportunity, disturbed	0.25	0.57	0.00
Phoebe, disturbed	0.71	0.73	0.00
Springdale, disturbed	0.01	0.18	0.00
7116:			
Urban land	---	---	---
Marblespring, disturbed	0.10	0.20	0.00
Marble, disturbed	0.13	0.21	0.00
Opportunity, disturbed	0.25	0.57	0.00
Phoebe, disturbed	0.71	0.73	0.00
Springdale, disturbed	0.01	0.18	0.00
7117:			
Urban land	---	---	---
Marblespring, disturbed	0.10	0.20	0.00
Marble, disturbed	0.12	0.21	0.00
Opportunity, disturbed	0.24	0.57	0.00
Phoebe, disturbed	0.70	0.73	0.00
Springdale, disturbed	0.01	0.18	0.00
7120:			
Urban land	---	---	---
Marble, disturbed	0.13	0.21	0.00
Marblespring, disturbed	0.10	0.20	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7120:			
Hardesty, disturbed	0.00	0.76	0.66
7121:			
Urban land	---	---	---
Marble, disturbed	0.13	0.21	0.00
Hardesty, disturbed	0.00	0.76	0.66
Hagen, disturbed	0.40	0.41	0.00
Marblespring, disturbed	0.10	0.20	0.00
Phoebe, disturbed	0.71	0.73	0.00
7122:			
Urban land	---	---	---
Marble, disturbed	0.12	0.21	0.00
Bong, moist, disturbed	0.47	0.56	0.00
Hardesty, disturbed	0.00	0.76	0.66
Lakespring, disturbed	0.00	0.44	0.00
Marblespring, disturbed	0.10	0.20	0.00
Rock outcrop	---	---	---
7123:			
Urban land	---	---	---
Marble, disturbed	0.09	0.21	0.00
Lakespring, disturbed	0.00	0.44	0.00
Rock outcrop	---	---	---
Rubble land	---	---	---
Speigle, disturbed	0.00	0.00	0.00
7130:			
Urban land	---	---	---
Northstar, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
Rockly, disturbed	0.00	0.00	0.00
Springdale, disturbed	0.01	0.17	0.00
Lakespring, disturbed	0.00	0.43	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7131:			
Urban land	---	---	---
Northstar, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
Rockly, disturbed	0.00	0.00	0.00
Lakespring, disturbed	0.00	0.43	0.00
Springdale, disturbed	0.01	0.17	0.00
7132:			
Urban land	---	---	---
Northstar, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
Rockly, disturbed	0.00	0.00	0.00
Seaboldt, disturbed	0.41	0.56	0.00
Springdale, disturbed	0.01	0.17	0.00
7134:			
Urban land	---	---	---
Northstar, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
Rockly, disturbed	0.00	0.00	0.00
Speigle, disturbed	0.00	0.00	0.00
Springdale, disturbed	0.01	0.17	0.00
Lakespring, disturbed	0.00	0.43	0.00
7140:			
Urban land	---	---	---
Uhlig, disturbed	0.75	0.74	0.00
Seaboldt, warm, disturbed	0.45	0.58	0.00
Brincken, moist, disturbed	0.81	0.88	0.00
Nez Perce, disturbed	0.00	0.91	0.00
7150:			
Urban land	---	---	---
Seaboldt, disturbed	0.45	0.58	0.00
Brincken, moist, disturbed	0.81	0.88	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7150:			
Uhlig, disturbed	0.75	0.74	0.00
Phoebe, disturbed	0.71	0.73	0.00
Marble, disturbed	0.13	0.21	0.00
7151:			
Urban land	---	---	---
Seaboldt, disturbed	0.45	0.58	0.00
Brincken, moist, disturbed	0.81	0.88	0.00
Marble, disturbed	0.13	0.21	0.00
Phoebe, disturbed	0.71	0.73	0.00
Uhlig, disturbed	0.75	0.74	0.00
7152:			
Urban land	---	---	---
Seaboldt, disturbed	0.45	0.58	0.00
Rock outcrop	---	---	---
Lakespring, disturbed	0.00	0.44	0.00
Marblespring, disturbed	0.10	0.20	0.00
Springdale, disturbed, stony surface	0.01	0.12	0.00
7163:			
Urban land	---	---	---
Spens, disturbed	0.00	0.14	0.00
Marble, disturbed	0.09	0.21	0.00
Springdale, disturbed	0.01	0.18	0.00
7170:			
Urban land	---	---	---
Springdale, disturbed	0.01	0.18	0.00
Marblespring, disturbed	0.10	0.20	0.00
Opportunity, disturbed	0.25	0.57	0.00
Marble, disturbed	0.12	0.21	0.00
7171:			
Urban land	---	---	---
Springdale, disturbed	0.01	0.18	0.00
Marblespring, disturbed	0.10	0.20	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7171:			
Brincken, moist, disturbed	0.81	0.88	0.00
Opportunity, disturbed	0.25	0.57	0.00
Marble, disturbed	0.13	0.21	0.00
7172:			
Urban land	---	---	---
Springdale, disturbed	0.01	0.18	0.00
Marblespring, disturbed	0.10	0.20	0.00
Spens, disturbed	0.01	0.14	0.00
7177:			
Urban land	---	---	---
Seaboldt, warm, disturbed	0.43	0.56	0.00
Brincken, moist, disturbed	0.78	0.85	0.00
Nez Perce, disturbed	0.00	0.88	0.00
Uhlig, disturbed	0.72	0.71	0.00
Stutler, disturbed	0.27	0.34	0.00
7178:			
Urban land	---	---	---
Seaboldt, warm, disturbed	0.43	0.56	0.00
Brincken, moist, disturbed	0.78	0.85	0.00
Nez Perce, disturbed	0.00	0.88	0.38
Uhlig, disturbed	0.72	0.71	0.00
Stutler, disturbed	0.27	0.34	0.00
7179:			
Urban land	---	---	---
Seaboldt, warm, disturbed	0.41	0.56	0.00
Brincken, moist, disturbed	0.74	0.85	0.00
Rockly, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
7180:			
Urban land	---	---	---
Phoebe, disturbed	0.71	0.73	0.00
Bong, moist, disturbed	0.47	0.56	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7180:			
Hardesty, disturbed	0.00	0.76	0.66
Marble, disturbed	0.13	0.21	0.00
7181:			
Urban land	---	---	---
Phoebe, disturbed	0.71	0.73	0.00
Bong, moist, disturbed	0.47	0.56	0.00
Hardesty, disturbed	0.00	0.76	0.66
Marble, disturbed	0.13	0.21	0.00
7182:			
Urban land	---	---	---
Phoebe, disturbed	0.71	0.73	0.00
Bong, moist, disturbed	0.47	0.56	0.00
Lakespring, disturbed	0.00	0.44	0.00
Marble, disturbed	0.13	0.21	0.00
7190:			
Urban land	---	---	---
Lakespring, disturbed	0.00	0.43	0.00
Marble, disturbed	0.12	0.21	0.00
Northstar, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
7191:			
Urban land	---	---	---
Lakespring, disturbed	0.00	0.43	0.00
Marble, disturbed	0.12	0.21	0.00
Northstar, disturbed	0.00	0.00	0.00
Rock outcrop	---	---	---
7197:			
Urban land	---	---	---
Spokane, disturbed	0.13	0.42	0.00
Lenz, disturbed	0.02	0.23	0.00
Rock outcrop	---	---	---
Swakane, disturbed	0.00	0.00	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
7200:			
Rock outcrop, cliffs	---	---	---
Rubble land, cliffs	---	---	---
8000:			
Pywell	0.00	0.06	0.27
Bellslake	0.00	0.07	0.31
Hoodoo	0.00	0.00	0.94
8001:			
Saltese	0.00	0.15	0.79
Cocolalla	0.00	0.00	1.00
Narcisse	0.82	0.70	0.00
Water	---	---	---
8002:			
Saltese, drained	0.00	0.69	1.00
Fluvaquentic Haplosaprists	0.00	0.69	1.00
Peone, drained	0.00	0.77	0.97
Endoaquolls	0.00	0.00	0.67
9124:			
Caldwell	0.00	0.84	1.00
Cald	0.00	0.25	1.00
Endoaquolls	0.00	0.00	0.69
Thatuna	0.98	0.99	0.00
Latah	0.00	0.80	1.00
9300:			
Taney	0.00	0.81	0.00
Carlinton, dry	0.00	0.77	0.00
Latahco	0.00	0.79	1.00
Setters	0.00	0.84	0.00
Southwick	0.87	0.94	0.00
9301:			
Taney	0.00	0.81	0.00
Carlinton, dry	0.00	0.77	0.00
Benewah	0.00	0.51	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
9301:			
Setters	0.00	0.84	0.00
Latahco	0.00	0.79	1.00
9330:			
Carlinton	0.00	0.77	0.00
Carlinton, dry	0.00	0.77	0.00
Lovell	0.00	0.00	0.51
Taney	0.00	0.81	0.00
Benewah	0.00	0.51	0.00
9335:			
Carlinton, dry	0.00	0.77	0.00
Carlinton	0.00	0.77	0.00
Taney	0.00	0.81	0.00
Benewah	0.00	0.51	0.00
Lovell	0.00	0.00	0.51
Santa	0.00	0.66	0.00
9336:			
Carlinton, dry	0.00	0.77	0.00
Taney	0.00	0.81	0.00
Carlinton	0.00	0.77	0.00
Benewah	0.00	0.51	0.00
Santa	0.00	0.66	0.00
Latahco	0.00	0.79	1.00
9340:			
Arson	0.17	0.46	0.00
Lotuspoint	0.00	0.00	0.00
Ardenvoir	0.00	0.34	0.00
Ardenvoir, dry	0.00	0.00	0.00
Bechtel	0.11	0.27	0.00
Sinkler	0.45	0.59	0.00
9341:			
Sinkler	0.39	0.59	0.00
Arson	0.19	0.49	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
9341:			
Benewah	0.00	0.41	0.00
Sharptop	0.36	0.43	0.00
Bechtel	0.11	0.29	0.00
Grangemont, warm	0.50	0.56	0.00
9342:			
Sinkler, dry	0.41	0.62	0.00
Arson, dry	0.20	0.53	0.00
Ardenvoir, dry	0.00	0.00	0.00
McCrosket	0.19	0.35	0.00
Lotuspoint	0.00	0.00	0.00
Sinkler	0.58	0.68	0.00
9350:			
Southwick	0.87	0.95	0.00
Larkin	0.82	0.93	0.00
Latahco	0.00	0.80	1.00
Cald	0.00	0.78	1.00
Driscoll	0.00	0.88	0.00
Taney	0.00	0.81	0.00
9355:			
Southwick	0.87	0.95	0.00
Driscoll	0.00	0.88	0.00
Larkin	0.78	0.93	0.00
Latahco	0.00	0.80	1.00
Cald	0.00	0.78	1.00
Garfield	0.67	0.68	0.00
9356:			
Southwick	0.71	0.95	0.00
Driscoll	0.00	0.88	0.00
Larkin	0.67	0.93	0.00
Garfield	0.54	0.67	0.00
Cald	0.00	0.78	1.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
9363:			
Larkin	0.83	0.94	0.00
Driscoll	0.00	0.89	0.00
Southwick	0.88	0.95	0.00
Latahco	0.00	0.80	1.00
Cald	0.00	0.78	1.00
Garfield	0.70	0.68	0.00
9364:			
Larkin	0.83	0.94	0.00
Southwick	0.88	0.95	0.00
Driscoll	0.00	0.89	0.00
Latahco	0.00	0.80	1.00
Cald	0.00	0.79	1.00
Taney	0.00	0.82	0.00
9367:			
Larkin	0.62	0.92	0.00
Driscoll	0.00	0.88	0.00
Garfield	0.54	0.67	0.00
Southwick	0.77	0.95	0.00
Cald	0.00	0.79	1.00
9610:			
Schumacher	0.63	0.78	0.00
Tekoa	0.00	0.00	0.00
Libertybutte	0.00	0.00	0.00
McCrosket	0.24	0.39	0.00
Larkin	0.69	0.82	0.00
9611:			
Schumacher	0.20	0.57	0.00
Tekoa	0.00	0.00	0.00
Libertybutte	0.00	0.00	0.00
McCrosket	0.03	0.27	0.00
Cassyhill	0.00	0.00	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
9611:			
Arson, dry	0.00	0.46	0.00
9612:			
Libertybutte	0.00	0.00	0.00
Tekoa	0.00	0.00	0.00
Schumacher	0.55	0.68	0.00
McCrosket	0.17	0.32	0.00
Cassyhill	0.00	0.00	0.00
9613:			
Ardenvoir, dry	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Arson, dry	0.34	0.56	0.00
Cassyhill	0.00	0.00	0.00
McCrosket	0.23	0.35	0.00
9614:			
Ardenvoir, dry	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Cassyhill	0.00	0.00	0.00
McCrosket	0.09	0.27	0.00
Pinecreek	0.00	0.00	0.00
9617:			
Tekoa	0.00	0.00	0.00
Schumacher	0.48	0.73	0.00
Libertybutte	0.00	0.00	0.00
Cassyhill	0.00	0.00	0.00
Arson, dry	0.19	0.50	0.00
9701:			
Ardenvoir	0.00	0.00	0.00
McCrosket	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Ardenvoir, dry	0.00	0.00	0.00
Huckle, dry	0.00	0.14	0.00
Cassyhill	0.00	0.00	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
9703:			
Ardenvoir, dry	0.00	0.00	0.00
Ardenvoir	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
McCrosket	0.00	0.19	0.00
Huckle, dry	0.00	0.14	0.00
Cassyhill	0.00	0.00	0.00
9704:			
Ardenvoir, dry	0.00	0.00	0.00
Ardenvoir	0.24	0.40	0.00
Lotuspoint	0.00	0.00	0.00
McCrosket	0.16	0.31	0.00
Arson, dry	0.29	0.47	0.00
Cassyhill	0.00	0.00	0.00
9706:			
Ardenvoir	0.00	0.00	0.00
Ardenvoir, dry	0.00	0.00	0.00
Huckle	0.00	0.14	0.00
McCrosket	0.08	0.24	0.00
Saint Maries, dry	0.00	0.00	0.00
9707:			
Huckle, dry	0.00	0.15	0.00
Ardenvoir	0.00	0.00	0.00
Ahrs	0.00	0.00	0.00
Saint Maries, dry	0.00	0.00	0.00
Rasser	0.00	0.00	0.00
Honeyjones, warm	0.00	0.00	0.00
9710:			
McCrosket	0.19	0.33	0.00
Ardenvoir	0.27	0.46	0.00
Ardenvoir, dry	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Arson	0.34	0.57	0.00

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
9710:			
Tekoa	0.00	0.00	0.00
9711:			
McCrosket	0.00	0.00	0.00
Ardenvoir	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Arson	0.00	0.34	0.00
Huckle, dry	0.00	0.14	0.00
Tekoa	0.00	0.00	0.00
9712:			
McCrosket	0.00	0.16	0.00
Tekoa	0.00	0.00	0.00
Ardenvoir	0.00	0.22	0.00
Lotuspoint	0.00	0.00	0.00
Cassyhill	0.00	0.00	0.00
Rasser	0.00	0.00	0.00
9735:			
Lotuspoint, stony surface	0.00	0.00	0.00
Cassyhill	0.00	0.00	0.00
Pinecreek	0.00	0.00	0.00
Ardenvoir	0.00	0.16	0.00
Rasser	0.00	0.00	0.00
Rock outcrop	---	---	---
9770:			
Pinecreek	0.00	0.00	0.00
Ahrs	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Rasser	0.00	0.00	0.00
Cassyhill	0.00	0.00	0.00
Rock outcrop	---	---	---

Table 7.--Nonirrigated Hay Productivity Indices--Continued

Map unit symbol and soil name	Hay productivity indices		
	Nonirrigated alfalfa hay	Nonirrigated grass hay	Subirrigated wild hay*
9775:			
Pinecreek, moist	0.00	0.00	0.00
Ahrs	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Rasser	0.00	0.00	0.00
Honeyjones, warm	0.00	0.00	0.00
Rock outcrop	---	---	---
9776:			
Cassyhill	0.00	0.00	0.00
Lotuspoint, stony surface	0.00	0.00	0.00
Ardenvoir, dry	0.00	0.00	0.00
Rock outcrop	---	---	---
9778:			
Cassyhill	0.00	0.00	0.00
Lotuspoint	0.00	0.00	0.00
Ardenvoir, dry	0.00	0.00	0.00
Pinecreek	0.00	0.00	0.00
Rock outcrop	---	---	---
9782:			
Ardenvoir, dry	0.00	0.00	0.00
Cassyhill	0.00	0.00	0.00
Lotuspoint, stony surface	0.00	0.00	0.00
Arson, dry	0.00	0.37	0.00
Rock outcrop	---	---	---
W:			
Water	---	---	---

*Wild hay is produced on sites that are subirrigated with a naturally occurring high water table in the root zone that persists for a considerable part of the growing season. Vegetation consists of water-tolerant grasses, rushes, and sedges that occur naturally or have colonized in areas where the woody vegetation has been removed.

Table 8.--Prime and other Important Farmland

(Only the soils considered prime or important farmland are listed. Urban or built-up areas of the soils listed are not considered prime or important farmland. If a soil is prime or important farmland only under certain conditions, the conditions are specified in parentheses after the soil name.)

Map symbol	Map unit name	Farmland classification
1040	Hardesty ashy silt loam, 0 to 3 percent slopes	All areas are prime farmland
1070	Mondovi silt loam, 0 to 8 percent slopes	All areas are prime farmland
1080	Narcisse silt loam, 0 to 3 percent slopes	All areas are prime farmland
1081	Narcisse silt loam, 3 to 8 percent slopes	All areas are prime farmland
1091	Peone ashy silt loam, drained, 0 to 3 percent slopes	All areas are prime farmland
1130	Colburn ashy loam, 0 to 3 percent slopes	All areas are prime farmland
1203	Haploxerolls ashy silt loam, channeled, 0 to 8 percent slopes	All areas are prime farmland
2080	Gibbs ashy silt loam, 0 to 8 percent slopes	All areas are prime farmland
3044	Cheney ashy silt loam, 0 to 8 percent slopes	All areas are prime farmland
3046	Cheney-Seaboldt, dry, complex, 0 to 8 percent slopes	All areas are prime farmland
3070	Eloika ashy very fine sandy loam, 0 to 8 percent slopes	All areas are prime farmland
3074	Eloika ashy very fine sandy loam, moist, 0 to 8 percent slopes	All areas are prime farmland
3090	Glenrose ashy silt loam, 0 to 8 percent slopes	All areas are prime farmland
3101	Green Bluff ashy silt loam, 0 to 8 percent slopes	All areas are prime farmland
3500	Uhlig ashy silt loam, 0 to 8 percent slopes	All areas are prime farmland
3501	Brincken, moist-Uhlig complex, 0 to 8 percent slopes	All areas are prime farmland
3503	Uhlig ashy silt loam, dry, 0 to 8 percent slopes	All areas are prime farmland
3504	Brincken ashy silt loam, 0 to 8 percent slopes	All areas are prime farmland
4000	Hunters ashy silt loam, 0 to 8 percent slopes	All areas are prime farmland
4031	Lakespring ashy loam, 0 to 8 percent slopes	All areas are prime farmland
4041	Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes	All areas are prime farmland
6001	Athena silt loam, 0 to 8 percent slopes	All areas are prime farmland
6040	Larkin silt loam, 0 to 8 percent slopes	All areas are prime farmland
6043	Larkin-Driscoll complex, 0 to 8 percent slopes	All areas are prime farmland
6061	Naff silt loam, 0 to 8 percent slopes	All areas are prime farmland
6093	Reardan silt loam, 0 to 8 percent slopes	All areas are prime farmland
6140	Driscoll silt loam, 0 to 8 percent slopes	All areas are prime farmland
8002	Saltese muck, drained, 0 to 3 percent slopes	All areas are prime farmland
9300	Taney ashy silt loam, 3 to 8 percent slopes	All areas are prime farmland
9336	Carlinton, dry,-Taney complex, 3 to 8 percent slopes	All areas are prime farmland
9350	Southwick ashy silt loam, 3 to 8 percent slopes	All areas are prime farmland
1030	Emdent ashy silt loam, 0 to 3 percent slopes	Farmland of statewide importance
2040	Klickson gravelly ashy silt loam, mass wasted, 15 to 30 percent slopes	Farmland of statewide importance
2081	Gibbs ashy silt loam, 8 to 15 percent slopes	Farmland of statewide importance
3025	Bong ashy sandy loam, moist, 15 to 30 percent slopes	Farmland of statewide importance
3031	Bonner-Wapal complex, 8 to 15 percent slopes	Farmland of statewide importance
3055	Clayton-Hagen complex, 8 to 25 percent slopes	Farmland of statewide importance
3061	Dearyton ashy silt loam, 8 to 15 percent slopes	Farmland of statewide importance
3062	Dearyton ashy silt loam, 15 to 30 percent slopes	Farmland of statewide importance
3085	Garrison very gravelly ashy loam, 15 to 30 percent slopes	Farmland of statewide importance
3091	Glenrose ashy silt loam, 8 to 25 percent slopes	Farmland of statewide importance
3102	Green Bluff ashy silt loam, 8 to 15 percent slopes	Farmland of statewide importance
3122	Marble loamy sand, 15 to 30 percent slopes	Farmland of statewide importance
3132	Bong, moist-Phoebe complex, 8 to 15 percent slopes	Farmland of statewide importance
3135	Bong-Phoebe, dry, complex, 8 to 15 percent slopes	Farmland of statewide importance
3145	Wapal gravelly ashy coarse sandy loam, 15 to 30 percent slopes	Farmland of statewide importance
3202	Torboy-Blackprince complex, 8 to 15 percent slopes	Farmland of statewide importance
3221	Stapaloop-Kaniksu, dry complex, 8 to 25 percent slopes	Farmland of statewide importance
3302	Scrabblers ashy fine sandy loam, 8 to 15 percent slopes	Farmland of statewide importance
3303	Scrabblers-Torboy complex, 3 to 15 percent slopes	Farmland of statewide importance
3401	Elmira loamy sand, 3 to 15 percent slopes	Farmland of statewide importance
3402	Elmira loamy sand, 15 to 30 percent slopes	Farmland of statewide importance
3404	Elmira-Seaboldt complex, 8 to 25 percent slopes	Farmland of statewide importance
3502	Brincken, moist-Fourmound complex, 0 to 15 percent slopes	Farmland of statewide importance

Table 8.--Prime and other Important Farmland--Continued

Map symbol	Map unit name	Farmland classification
3601	Seaboldt ashy loam, 8 to 15 percent slopes	Farmland of statewide importance
4001	Cedonia ashy silt loam, 0 to 8 percent slopes	Farmland of statewide importance
4002	Cedonia ashy silt loam, 8 to 25 percent slopes	Farmland of statewide importance
4032	Lakespring ashy loam, 8 to 25 percent slopes	Farmland of statewide importance
4033	Lakespring-Brincken, moist, complex, 8 to 25 percent slopes	Farmland of statewide importance
4040	Wolfeson-Fan Lake complex, 0 to 8 percent slopes	Farmland of statewide importance
4050	Fan Lake ashy very fine sandy loam, 0 to 8 percent slopes	Farmland of statewide importance
4051	Fan Lake ashy very fine sandy loam, 8 to 25 percent slopes	Farmland of statewide importance
5026	Micapeak-Spokane complex, 15 to 30 percent slopes	Farmland of statewide importance
5060	Bouldercreek ashy silt loam, moist, 3 to 15 percent slopes	Farmland of statewide importance
5061	Nakarna-Nakarna, dry complex, 15 to 30 percent slopes	Farmland of statewide importance
5067	Quinnamose-Micapeak complex, 15 to 30 percent slopes	Farmland of statewide importance
5070	Lenz-Spokane complex, 3 to 15 percent slopes	Farmland of statewide importance
5071	Lenz-Spokane complex, 15 to 30 percent slopes	Farmland of statewide importance
5090	Brevco-Ardtoo complex, 3 to 15 percent slopes	Farmland of statewide importance
5091	Brevco gravelly ashy sandy loam, 15 to 30 percent slopes	Farmland of statewide importance
5093	Blackprince-Ardtoo complex, 15 to 30 percent slopes	Farmland of statewide importance
5102	Boulderjud ashy silt loam, 15 to 30 percent slopes	Farmland of statewide importance
5104	Boulderjud ashy silt loam, dry, 15 to 30 percent slopes	Farmland of statewide importance
5110	Bouldercreek ashy silt loam, 15 to 30 percent slopes	Farmland of statewide importance
5112	Bouldercreek ashy silt loam, dry, 15 to 30 percent slopes	Farmland of statewide importance
5120	Kellerbutte-Boulderjud complex, 15 to 30 percent slopes	Farmland of statewide importance
5121	Kellerbutte-Brevco complex, 15 to 30 percent slopes	Farmland of statewide importance
5130	Brodeer ashy silt loam, 3 to 15 percent slopes	Farmland of statewide importance
5140	Jacot-Hysing complex, dry, 3 to 15 percent slopes	Farmland of statewide importance
5141	Jacot-Hysing complex, 15 to 30 percent slopes	Farmland of statewide importance
5143	Jacot-Hysing complex, dry, 15 to 30 percent slopes	Farmland of statewide importance
5211	Kruse ashy silt loam, 8 to 15 percent slopes	Farmland of statewide importance
5212	Kruse ashy silt loam, 15 to 30 percent slopes	Farmland of statewide importance
5310	Kramerhill ashy loam, 3 to 15 percent slopes	Farmland of statewide importance
5313	Kramerhill-Spokane complex, 8 to 25 percent slopes	Farmland of statewide importance
5321	Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes	Farmland of statewide importance
5412	Keeler ashy loam, 8 to 15 percent slopes	Farmland of statewide importance
5413	Keeler-Kruse complex, 15 to 30 percent slopes	Farmland of statewide importance
5512	Santa ashy silt loam, 8 to 15 percent slopes	Farmland of statewide importance
5513	Santa ashy silt loam, 15 to 35 percent slopes	Farmland of statewide importance
5602	Lakestarr-Santa complex, 8 to 15 percent slopes	Farmland of statewide importance
5603	Lakestarr-Santa complex, 15 to 30 percent slopes	Farmland of statewide importance
6002	Athena silt loam, 8 to 15 percent slopes	Farmland of statewide importance
6003	Athena-Lance complex, 15 to 30 percent slopes	Farmland of statewide importance
6011	Freeman ashy silt loam, 8 to 15 percent slopes	Farmland of statewide importance
6012	Freeman ashy silt loam, 15 to 25 percent slopes	Farmland of statewide importance
6021	Garfield-Naff complex, 8 to 35 percent slopes	Farmland of statewide importance
6031	Staley-Naff complex, 8 to 25 percent slopes	Farmland of statewide importance
6041	Larkin-Southwick complex, 8 to 15 percent slopes	Farmland of statewide importance
6042	Larkin-Southwick complex, 15 to 25 percent slopes	Farmland of statewide importance
6045	Southwick-Larkin complex, 15 to 25 percent slopes	Farmland of statewide importance
6062	Naff-Thatuna complex, 8 to 25 percent slopes	Farmland of statewide importance
6064	Naff silt loam, 8 to 15 percent slopes	Farmland of statewide importance
6067	Naff-Garfield complex, 3 to 15 percent slopes	Farmland of statewide importance
6068	Naff-Garfield complex 15 to 25 percent slopes	Farmland of statewide importance
6072	Hanning silt loam, 8 to 15 percent slopes	Farmland of statewide importance
6073	Hanning silt loam, 15 to 30 percent slopes	Farmland of statewide importance
6094	Reardan silt loam, 8 to 15 percent slopes	Farmland of statewide importance
6096	Broadax-Reardan silt loams, 3 to 25 percent slopes	Farmland of statewide importance
6110	Broadax silt loam, 0 to 8 percent slopes	Farmland of statewide importance
6111	Broadax silt loam, 8 to 15 percent slopes	Farmland of statewide importance
6112	Broadax silt loam, 15 to 30 percent slopes	Farmland of statewide importance
6130	Thatuna-Naff complex, 8 to 15 percent slopes	Farmland of statewide importance
6131	Thatuna-Naff complex, 15 to 30 percent slopes	Farmland of statewide importance
6141	Driscoll-Larkin complex, 8 to 15 percent slopes	Farmland of statewide importance
6200	Morical ashy silt loam, 0 to 15 percent slopes	Farmland of statewide importance
6201	Morical ashy silt loam, 15 to 30 percent slopes	Farmland of statewide importance
9301	Taney ashy silt loam, 8 to 20 percent slopes	Farmland of statewide importance

Table 8.--Prime and other Important Farmland--Continued

Map symbol	Map unit name	Farmland classification
9330	Carlinton-Carlinton, dry, complex, 3 to 20 percent slopes	Farmland of statewide importance
9335	Carlinton ashy silt loam, dry, 8 to 25 percent slopes	Farmland of statewide importance
9355	Southwick-Driscoll complex, 3 to 15 percent slopes	Farmland of statewide importance
9356	Southwick-Driscoll complex, 15 to 25 percent slopes	Farmland of statewide importance
9363	Larkin-Driscoll complex, 3 to 12 percent slopes	Farmland of statewide importance
9364	Larkin-Southwick complex, 3 to 12 percent slopes	Farmland of statewide importance
9367	Larkin-Driscoll complex, 12 to 25 percent slopes	Farmland of statewide importance
9610	Schumacher silt loam, 5 to 25 percent slopes	Farmland of statewide importance
1001	Bridgeson ashy silt loam, 0 to 3 percent slopes	Prime farmland if drained
1010	Caldwell-Thatuna complex, 0 to 8 percent slopes	Prime farmland if drained
1015	Caldwell silt loam, 0 to 3 percent slopes	Prime farmland if drained
1120	Lovell ashy silt loam, 0 to 3 percent slopes	Prime farmland if drained
3060	Dearyton ashy silt loam, 0 to 8 percent slopes	Prime farmland if drained
6010	Freeman ashy silt loam, 0 to 8 percent slopes	Prime farmland if drained
6050	Tilma-Latah complex, 0 to 8 percent slopes	Prime farmland if drained
6080	Nez Perce ashy silt loam, 0 to 8 percent slopes	Prime farmland if drained
1020	Cocolalla ashy silt loam, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
1021	Cocolalla-Hardesty complex, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
1050	Hoodoo-Kronquist complex, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
1090	Peone-Saltese complex, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
1092	Hoodoo ashy silt loam, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
1200	Endoaquolls and Fluvaquents, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
1300	Aquepts ashy loam, frigid, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
8000	Pywell-Bellslake complex, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
8001	Saltese muck, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
9124	Caldwell-Cald complex, 0 to 3 percent slopes	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
2085	Tucannon ashy silt loam, 0 to 8 percent slopes	Prime farmland if irrigated
3015	Seaboldt ashy loam, dry, 0 to 8 percent slopes	Prime farmland if irrigated
3020	Bong ashy sandy loam, 0 to 8 percent slopes	Prime farmland if irrigated
3022	Bong ashy sandy loam, moist, 0 to 8 percent slopes	Prime farmland if irrigated
3024	Phoebe-Bong, moist, complex, 0 to 8 percent slopes	Prime farmland if irrigated
3026	Phoebe, dry-Bong complex, 0 to 8 percent slopes	Prime farmland if irrigated
3030	Bonner ashy fine sandy loam, 0 to 8 percent slopes	Prime farmland if irrigated

Table 8.--Prime and other Important Farmland--Continued

Map symbol	Map unit name	Farmland classification
3054	Clayton ashy fine sandy loam, 0 to 8 percent slopes	Prime farmland if irrigated
3056	Hagen ashy sandy loam, 0 to 3 percent slopes	Prime farmland if irrigated
3057	Hagen ashy sandy loam, 3 to 8 percent slopes	Prime farmland if irrigated
3080	Opportunity very gravelly ashy loam, 0 to 3 percent slopes	Prime farmland if irrigated
3081	Opportunity very gravelly ashy loam, 3 to 8 percent slopes	Prime farmland if irrigated
3082	Opportunity very gravelly ashy loam, 8 to 15 percent slopes	Prime farmland if irrigated
3083	Garrison very gravelly ashy loam, 0 to 8 percent slopes	Prime farmland if irrigated
3084	Garrison very gravelly ashy loam, 8 to 15 percent slopes	Prime farmland if irrigated
3110	Fourmound-Stutler complex, 0 to 8 percent slopes	Prime farmland if irrigated
3113	Stutler-Springdale complex, 3 to 15 percent slopes	Prime farmland if irrigated
3120	Marble loamy sand, 0 to 8 percent slopes	Prime farmland if irrigated
3121	Marble loamy sand, 8 to 15 percent slopes	Prime farmland if irrigated
3127	Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes	Prime farmland if irrigated
3130	Phoebe ashy sandy loam, 0 to 3 percent slopes	Prime farmland if irrigated
3131	Phoebe ashy sandy loam, 3 to 8 percent slopes	Prime farmland if irrigated
3133	Phoebe ashy sandy loam, dry, 0 to 3 percent slopes	Prime farmland if irrigated
3134	Phoebe ashy sandy loam, dry, 3 to 8 percent slopes	Prime farmland if irrigated
3140	Springdale gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Prime farmland if irrigated
3141	Springdale gravelly ashy coarse sandy loam, 8 to 15 percent slopes	Prime farmland if irrigated
3144	Wapal gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Prime farmland if irrigated
3200	Torboy fine gravelly ashy coarse sandy loam, 0 to 3 percent slopes	Prime farmland if irrigated
3201	Torboy ashy sandy loam, 3 to 8 percent slopes	Prime farmland if irrigated
3210	Kaniksu ashy sandy loam, 0 to 3 percent slopes	Prime farmland if irrigated
3211	Kaniksu ashy sandy loam, 3 to 8 percent slopes	Prime farmland if irrigated
3212	Kaniksu, dry-Seaboldt complex, 0 to 8 percent slopes	Prime farmland if irrigated
3220	Stapaloop ashy fine sandy loam, 0 to 8 percent slopes	Prime farmland if irrigated
3222	Stapaloop-Seaboldt complex, 0 to 8 percent slopes	Prime farmland if irrigated
3300	Scrabblers ashy fine sandy loam, 0 to 3 percent slopes	Prime farmland if irrigated
3301	Scrabblers ashy fine sandy loam, 3 to 8 percent slopes	Prime farmland if irrigated
3505	Seaboldt, warm-Brincken, moist complex, 0 to 8 percent slopes	Prime farmland if irrigated
3600	Seaboldt ashy loam, 0 to 8 percent slopes	Prime farmland if irrigated

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities

(Composition of forest understory is based on canopy cover. Composition of range ecological sites is based on air-dry weight.)

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1001:						
Bridgeson	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
Hoodoo	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1001:						
Wolfeson	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	
Pywell	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1001:						
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
1010:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1010:						
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1010:						
Latah----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Mondovi----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1010:						
Endoaquolls	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
1015:						
Caldwell	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1015:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Endoaquolls	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1015:						
Mondovi	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1020:						
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1020:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Saltese----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Water.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1021:						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1021:						
Saltese	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1021:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Water.						
1030:						
Emdent	ALKALI BOTTOM 16-24 PZ (R009XY401WA)	Favorable	4,000	Basin wildrye		50
		Normal	3,000	Alkali cordgrass		5
		Unfavorable	2,000	Baltic rush		5
				Clustered field sedge		5
				Common yarrow		5
				Northwest cinquefoil		5
				Other perennial forbs		5
				Saltgrass		5
				Sandberg bluegrass		5
				Forb, annual		3
				Rose		3
				Other perennial grasslikes		1
				Other shrubs		1
				Other perennial grasses		1
				Smooth horsetail		1
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1030:						
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rockly	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1030:						
Saltese	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
1040:						
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1040:						
Narcisse----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods’ rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas’ hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1040:						
Peone	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1040:						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
1050:						
Hoodoo	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1050:						
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas' spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Colburn----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1050:						
Pywell	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
1070:						
Mondovi	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1070:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1070:						
Endoaquolls	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1080:						
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1080:						
Bong, moist	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Kronquist	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas' spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1081:						
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1081:						
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Opportunity----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1090:						
Peone	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
Saltese	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1090:						
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1090:						
Peone, drained--------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
Water.						
1091:						
Peone, drained--------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1091:						
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas' spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Cedonia----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	35	
		Normal	---	Common snowberry	25	
		Unfavorable	---	Creambush oceanspray	10	
				White spirea	7	
				Saskatoon serviceberry	5	
				Woods' rose	5	
				Chokecherry	3	
				Pinegrass	3	
				Low Oregongrape	2	
				Spreading dogbane	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1091:						
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
1092:						
Hoodoo----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1092:						
Bellslake	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Kronquist	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1092:						
Pywell----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Water.						
1120:						
Lovell----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1120:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas’ hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Santa	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Elk sedge	10	
		Unfavorable	---	Mallow ninebark	10	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon’s seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1120:						
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas' spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
1130:						
Colburn----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1130:						
Hoodoo	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	
Wolfeson	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1200:						
Endoaquolls	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Fluvaquents	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1200:						
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Saltese----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Water.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1203: Haploxerolls, channeled	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		10
		Unfavorable	2,000	Idaho fescue		10
				Rose		10
				Clusterlilly		5
				Lupine		5
				Sandberg bluegrass		5
				Sedge		5
				Small camas		5
				Mulesears wyethia		1
Mondovi	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1203:						
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Riverwash.						
Water.						
1300:						
Aquepts, frigid-------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Tufted hairgrass		20
		Normal	6,000	Hawthorn		15
		Unfavorable	5,000	Redtop		7
				Quaking aspen		5
				Redosier dogwood		5
				Sedge		5
				Western river alder		5
				Prickly currant		3
				Reed canarygrass		3
				Serviceberry		3
				Douglas spirea		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1300:						
Lovell----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Colburn----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1300:						
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon’s seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	
Kaniksu	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon’s seal	1	
Kronquist	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
1300:						
Pywell----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Water.						
2040:						
Klickson, mass wasted	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Blinn, stony surface--	Grand fir/ninebark (CN506)	Favorable	---	Creambush oceanspray	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Common snowberry	10	
				Elk sedge	5	
				Myrtle pachistima	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2040:						
Green Bluff----------	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Rock outcrop.						
Xerolls, frigid, mass wasted----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Lacy----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2040:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
2041:						
Klickson	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon's seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Blinn, stony surface	Grand fir/ninebark (CN506)	Favorable	---	Creambush oceanspray	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Common snowberry	10	
				Elk sedge	5	
				Myrtle pachistima	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2041: Xerolls, frigid, mass wasted	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
2042: Rock outcrop.						
Klickson	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2042:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rubble land.						
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
2043:						
Klickson, mass wasted	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon's seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2043:						
Speigle, mass wasted--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Green Bluff-----------	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Klickson-------------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon's seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2043:						
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Xerolls, frigid, mass wasted----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2043:						
Fan Lake	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
2044:						
Klickson	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2044:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Green Bluff	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Spens	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2044:						
Rock outcrop.						
Rubble land.						
2045:						
Marble, mass wasted---	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Speigle, mass wasted--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Spens-----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2045:						
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Klickson, mass wasted	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Rock outcrop.						
2046:						
Klickson----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2046:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rock outcrop.						
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Spens	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Rubble land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2050:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Spens	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2051:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Spens	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2051:						
Rubble land.						
Rock outcrop.						
2052:						
Brincken, moist, mass wasted	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Speigle, mass wasted	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Gibbs	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Idaho fescue	3	
				Common yarrow	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2052:						
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Klickson, mass wasted	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2052:						
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
Rock outcrop.						
		Normal	---			
		Unfavorable	---			
2053:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2053:						
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Rubble land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2053:						
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
2054:						
Speigle----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rubble land.						
Rock outcrop.						
Klickson----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon's seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2054:						
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Spens	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
2070:						
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2070:						
Gibbs----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Idaho fescue	3	
				Common yarrow	1	
				Silky lupine	1	
Rock outcrop.						
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2070:						
Stutler	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
2071:						
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2071:						
Gibbs	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Idaho fescue	3	
				Common yarrow	1	
				Silky lupine	1	
Lacy	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Rock outcrop.						
2080:						
Gibbs	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Idaho fescue	3	
				Common yarrow	1	
				Silky lupine	1	
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2080:						
Driscoll----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	
Lacy----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	
Rock outcrop.						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2081:						
Gibbs	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Idaho fescue	3	
				Common yarrow	1	
				Silky lupine	1	
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Brincken, moist	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2081:						
Driscoll----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	
Speigle----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rock outcrop.						
Lacy----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2085:						
Tucannon	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Cheney	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2085:						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2085:						
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop.						
2090:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2090:						
Tucannon	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop.						
Rubble land.						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2090:						
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
2160:						
Scoap----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Redstem ceanothus	2	
				Saskatoon serviceberry	2	
				Arrowleaf balsamroot	1	
				Common yarrow	1	
				Heartleaf arnica	1	
				Larkspur	1	
				Silky lupine	1	
				White spirea	1	
Rubble land.						
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
2160:						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Wapal	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3010:						
Alecanyon, very stony surface----------	STONY 16-24 PZ (R009XY202WA)	Favorable	900	Bluebunch wheatgrass		50
		Normal	800	Idaho fescue		34
		Unfavorable	700	Sandberg bluegrass		2
				Arrowleaf balsamroot		1
				Bottlebrush squirreltail		1
				Buckwheat		1
				Cinquefoil		1
				Fendler threeawn		1
				Fleabane		1
				Lupine		1
				Milkvetch		1
				Nelson’s needlegrass		1
				Prairie Junegrass		1
				Pussytoes		1
				Rabbitbrush		1
				Rough fescue		1
				Thurber needlegrass		1
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3015:						
Seaboldt, dry---------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3015:						
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Brincken, moist-------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3015:						
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
Rock outcrop.						
3020:						
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3020:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Phoebe, dry	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	50	
		Normal	---	Arrowleaf balsamroot	3	
		Unfavorable	---	Idaho fescue	2	
				Common yarrow	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Marblespring	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3022:						
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Phoebe----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Hagen----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3022:						
Marblespring----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3024:						
Phoebe----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3024:						
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3025:						
Bong, moist	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Phoebe	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3025:						
Spens	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3026:						
Phoebe, dry	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	50	
		Normal	---	Arrowleaf balsamroot	3	
		Unfavorable	---	Idaho fescue	2	
				Common yarrow	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3026:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3030:						
Bonner	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Common yarrow	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				White spirea	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Snowbrush ceanothus	2	
				Woodland strawberry	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3030:						
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Stien, very stony surface	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Baldhip rose	10	
				Common snowberry	10	
				Pinegrass	10	
				Saskatoon serviceberry	5	
				Kinnikinnick	2	
				Low Oregongrape	2	
				Sticky geranium	2	
				White spirea	2	
				Bluebunch wheatgrass	1	
Wapal	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods’ rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3030:						
Eloika----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	
Colburn----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas’ hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3031:						
Bonner	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Common yarrow	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				White spirea	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Snowbrush ceanothus	2	
				Woodland strawberry	2	
Wapal	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon's seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3031:						
Stien, very stony surface	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Baldhip rose	10	
				Common snowberry	10	
				Pinegrass	10	
				Saskatoon serviceberry	5	
				Kinnikinnick	2	
				Low Oregongrape	2	
				Sticky geranium	2	
				White spirea	2	
				Bluebunch wheatgrass	1	
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	
3039:						
Alecanyon	STONY 16-24 PZ (R009XY202WA)	Favorable	900	Bluebunch wheatgrass		50
		Normal	800	Idaho fescue		34
		Unfavorable	700	Sandberg bluegrass		2
				Arrowleaf balsamroot		1
				Bottlebrush squirreltail		1
				Buckwheat		1
				Cinquefoil		1
				Fendler threeawn		1
				Fleabane		1
				Lupine		1
				Milkvetch		1
				Nelson’s needlegrass		1
				Prairie Junegrass		1
				Pussytoes		1
				Rabbitbrush		1
				Rough fescue		1
				Thurber needlegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3039:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3039:						
Deno	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop.						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3039:						
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
3040:						
Cheney	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3040:						
Alecanyon----------	STONY 16-24 PZ (R009XY202WA)	Favorable	900	Bluebunch wheatgrass		50
		Normal	800	Idaho fescue		34
		Unfavorable	700	Sandberg bluegrass		2
				Arrowleaf balsamroot		1
				Bottlebrush squirreltail		1
				Buckwheat		1
				Cinquefoil		1
				Fendler threeawn		1
				Fleabane		1
				Lupine		1
				Milkvetch		1
				Nelson’s needlegrass		1
				Prairie Junegrass		1
				Pussytoes		1
				Rabbitbrush		1
				Rough fescue		1
				Thurber needlegrass		1
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3040:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Uhlig----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
3041:						
Alecanyon, very stony surface----------	STONY 16-24 PZ (R009XY202WA)	Favorable	900	Bluebunch wheatgrass		50
		Normal	800	Idaho fescue		34
		Unfavorable	700	Sandberg bluegrass		2
				Arrowleaf balsamroot		1
				Bottlebrush squirreltail		1
				Buckwheat		1
				Cinquefoil		1
				Fendler threeawn		1
				Fleabane		1
				Lupine		1
				Milkvetch		1
				Nelson’s needlegrass		1
				Prairie Junegrass		1
				Pussytoes		1
				Rabbitbrush		1
				Rough fescue		1
				Thurber needlegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3041:						
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3041:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Rock outcrop.						
3042:						
Alecanyon, very stony surface----------	STONY 16-24 PZ (R009XY202WA)	Favorable	900	Bluebunch wheatgrass		50
		Normal	800	Idaho fescue		34
		Unfavorable	700	Sandberg bluegrass		2
				Arrowleaf balsamroot		1
				Bottlebrush squirreltail		1
				Buckwheat		1
				Cinquefoil		1
				Fendler threeawn		1
				Fleabane		1
				Lupine		1
				Milkvetch		1
				Nelson’s needlegrass		1
				Prairie Junegrass		1
				Pussytoes		1
				Rabbitbrush		1
				Rough fescue		1
				Thurber needlegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3042:						
Tucannon	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Uhlig, dry	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3044:						
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3044:						
Alecanyon----------	STONY 16-24 PZ (R009XY202WA)	Favorable	900	Bluebunch wheatgrass		50
		Normal	800	Idaho fescue		34
		Unfavorable	700	Sandberg bluegrass		2
				Arrowleaf balsamroot		1
				Bottlebrush squirreltail		1
				Buckwheat		1
				Cinquefoil		1
				Fendler threeawn		1
				Fleabane		1
				Lupine		1
				Milkvetch		1
				Nelson’s needlegrass		1
				Prairie Junegrass		1
				Pussytoes		1
				Rabbitbrush		1
				Rough fescue		1
				Thurber needlegrass		1
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3044:						
Seaboldt, dry---------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Uhlig-----------------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
3045:						
Rockly----------------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3045:						
Deno	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3045:						
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Seaboldt, dry---------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3046:						
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Seaboldt, dry---------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3046:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3046:						
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3047:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Rock outcrop.						
Deno----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Rock outcrop, cliffs.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3047:						
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3047:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
3048:						
Rockly	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3048:						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3048:						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Water.						
3049:						
Rockly	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3049:						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rock outcrop, cliffs.						
Deno----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3049:						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Water.						
3054:						
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3054:						
Clayton, silty subsoil	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Hagen	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Phoebe, dry	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	50	
		Normal	---	Arrowleaf balsamroot	3	
		Unfavorable	---	Idaho fescue	2	
				Common yarrow	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Marblespring	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3055:						
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Hagen	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Clayton, silty subsoil	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3055:						
Endoaquolls	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Marblespring	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3056:						
Hagen----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3056:						
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Marblespring	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3057:						
Hagen----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods’ rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas’ hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3057:						
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Marblespring	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
3060:						
Dearyton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3060:						
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3060:						
Bong, moist	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Skalan	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	
3061:						
Dearyton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3061:						
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3061:						
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Skalan----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3061:						
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
3062:						
Dearyton----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3062:						
Kramerhill----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Skalan----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	
Spokane----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3062:						
Rock outcrop.						
3070:						
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	
Kaniksu	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon’s seal	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3070:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Stien, very stony surface	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Baldhip rose	10	
				Common snowberry	10	
				Pinegrass	10	
				Saskatoon serviceberry	5	
				Kinnikinnick	2	
				Low Oregongrape	2	
				Sticky geranium	2	
				White spirea	2	
				Bluebunch wheatgrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3070:						
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
3071:						
Stien, very stony surface	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Baldhip rose	10	
				Common snowberry	10	
				Pinegrass	10	
				Saskatoon serviceberry	5	
				Kinnikinnick	2	
				Low Oregongrape	2	
				Sticky geranium	2	
				White spirea	2	
				Bluebunch wheatgrass	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon's seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3071:						
Wapal----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Colburn----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3071:						
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
3072:						
Stien, very stony surface	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Baldhip rose	10	
				Common snowberry	10	
				Pinegrass	10	
				Saskatoon serviceberry	5	
				Kinnikinnick	2	
				Low Oregongrape	2	
				Sticky geranium	2	
				White spirea	2	
				Bluebunch wheatgrass	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon's seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3072:						
Wapal----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Colburn----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3072:						
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	
3073:						
Stien, very stony surface----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Baldhip rose	10	
				Common snowberry	10	
				Pinegrass	10	
				Saskatoon serviceberry	5	
				Kinnikinnick	2	
				Low Oregongrape	2	
				Sticky geranium	2	
				White spirea	2	
				Bluebunch wheatgrass	1	
Rock outcrop.						
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3073:						
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Wapal	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods’ rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3074:						
Eloika, moist---------	Grand fir/queencup beadlily (CN520)	Favorable	---	Longtube twinflower	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Queencup bead lily	5	
				Heartleaf arnica	3	
				Kinnikinnick	3	
				Starry false Solomon’s seal	3	
				White spirea	3	
				Columbia brome	2	
				Elk sedge	2	
				Low Oregongrape	2	
				Mountain sweet-cicely	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
Kaniksu---------------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon’s seal	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3074:						
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Bonner	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Common yarrow	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				White spirea	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Snowbrush ceanothus	2	
				Woodland strawberry	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3074:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3074:						
Fan Lake	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	
Wolfeson	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3080:						
Opportunity----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Garrison----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3080:						
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
3081:						
Opportunity	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3081:						
Bong, moist	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Garrison	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3081:						
Springdale----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
3082:						
Opportunity----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3082:						
Garrison	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3083:						
Garrison	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3083:						
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Opportunity----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3083:						
Springdale----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
3084:						
Garrison----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3084: Garrison, extremely stony surface	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Opportunity	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3085:						
Garrison	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Opportunity	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Urban land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3087: Garrison, extremely stony surface	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Garrison	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Bong, moist	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3087:						
Opportunity	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Urban land.						
3090:						
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3090:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Dearyton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3090:						
Uhlig----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3091:						
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
Dearyton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	
Glenrose, cobbly surface	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3091:						
Kramerhill----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon's seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon's seal	1	
				Idaho goldthread	1	
				Piper's anemone	1	
				Western meadowrue	1	
Larkin----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3091:						
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
3101:						
Green Bluff	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Blinn	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Common snowberry	10	
				Elk sedge	5	
				Myrtle pachistima	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
Brincken, moist	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3101:						
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Hoodoo----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas' spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3102:						
Green Bluff----------	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Bobbitt----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Brincken, moist-------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3102:						
Klickson	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Lakespring	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3102:						
Hoodoo	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas' spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Rock outcrop.						
3110:						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3110:						
Stutler	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Seaboldt, warm	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3110:						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3112:						
Stutler, extremely bouldery surface-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rockly-----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Northstar----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3112:						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rock outcrop.						
Springdale----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3113:						
Stutler	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3113:						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
3114:						
Rockly	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3114:						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3114:						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Water.						
3115:						
Northstar----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3115:						
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Rubble land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3115:						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Stutler----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3115:						
Klickson	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
3116:						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rockly	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3116:						
Fourmound----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3116:						
Speigle----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
3117:						
Northstar----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3117:						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Rubble land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3117:						
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
3118:						
Rockly	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3118:						
Cocolalla	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3118:						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
Water.						
3120:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3120:						
Hagen	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Marblespring	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3121:						
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Marblespring----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Bong----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3121:						
Hagen	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3122:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3122:						
Marblespring----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hagen----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3122:						
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
3123:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3123:						
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Hagen----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Spens, cool----------	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	White spirea	9	
		Unfavorable	---	Bluebunch wheatgrass	7	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Pinegrass	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods’ rose	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3123:						
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3126:						
Rock outcrop.						
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3126:						
Speigle----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Fourmound----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rockly----------	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Rubble land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3127:						
Marblespring----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3127:						
Phoebe----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
3130:						
Phoebe----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3130:						
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3131:						
Phoebe----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Bong----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Clayton----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3131:						
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3132:						
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Phoebe----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3132:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3133:						
Phoebe, dry	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	50	
		Normal	---	Arrowleaf balsamroot	3	
		Unfavorable	---	Idaho fescue	2	
				Common yarrow	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3133:						
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3134:						
Phoebe, dry	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	50	
		Normal	---	Arrowleaf balsamroot	3	
		Unfavorable	---	Idaho fescue	2	
				Common yarrow	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3134:						
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Hardesty	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3135:						
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Phoebe, dry	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	50	
		Normal	---	Arrowleaf balsamroot	3	
		Unfavorable	---	Idaho fescue	2	
				Common yarrow	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3135:						
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3140:						
Springdale----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3140:						
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Garrison----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3140:						
Opportunity----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Springdale, stony surface----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
3141:						
Springdale----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3141:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Spens	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Garrison	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3141:						
Opportunity----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3142:						
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3142:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Bong, moist	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3142:						
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3143:						
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods’ rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas’ hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3143:						
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Wapal	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3144:						
Wapal----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Bonner----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Common yarrow	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				White spirea	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Snowbrush ceanothus	2	
				Woodland strawberry	2	
Kaniksu----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon's seal	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3145:						
Wapal	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Scoap	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Redstem ceanothus	2	
				Saskatoon serviceberry	2	
				Arrowleaf balsamroot	1	
				Common yarrow	1	
				Heartleaf arnica	1	
				Larkspur	1	
				Silky lupine	1	
				White spirea	1	
Springdale	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3145:						
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Klickson	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon's seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
3146:						
Scoap	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Redstem ceanothus	2	
				Saskatoon serviceberry	2	
				Arrowleaf balsamroot	1	
				Common yarrow	1	
				Heartleaf arnica	1	
				Larkspur	1	
				Silky lupine	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3146:						
Wapal----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Elmira----------	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Klickson----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon's seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Rock outcrop.						
Rubble land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3147:						
Spens, cool----------	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	White spirea	9	
		Unfavorable	---	Bluebunch wheatgrass	7	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Pinegrass	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Springdale----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3147:						
Wapal----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
3148:						
Spens, cool----------	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	White spirea	9	
		Unfavorable	---	Bluebunch wheatgrass	7	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Pinegrass	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
Elmira----------	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3148:						
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Wapal----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Mallow ninebark	15	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Saskatoon serviceberry	3	
				Woods’ rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3200:						
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3200:						
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon's seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon's seal	1	
				Strawberry	1	
				White spirea	1	
3201:						
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3201:						
Eloika----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	
Scrabblers----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3202:						
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
Blackprince	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon's seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3202:						
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Rock outcrop.						
3210:						
Kaniksu	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon’s seal	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3210:						
Torboy----------	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods’ rose	1	
Eloika----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3210:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Wolfeson	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	
3211:						
Kaniksu	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon's seal	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3211:						
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods’ rose	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3211:						
Colburn----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas’ hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Eloika----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3212:						
Kaniksu, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	
Seaboldt----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	
Stapaloop----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3212:						
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Kaniksu	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon's seal	1	
Rock outcrop.						
3220:						
Stapaloop	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon's seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3220:						
Fan Lake----------	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	
Kaniksu, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3220:						
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Wolfeson	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	
3221:						
Stapaloop	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3221:						
Kaniksu, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	
Fan Lake----------	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3221:						
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
Kaniksu	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon's seal	1	
3222:						
Stapaloop	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon's seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3222:						
Seaboldt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	
Kaniksu, dry	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	
Fan Lake	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3222:						
Rock outcrop.						
3300:						
Scrabblers----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Eloika----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	
Kaniksu, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3300:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3301:						
Scrabblers----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Kaniksu, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3301:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon's seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3301:						
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Kaniksu	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Starry false Solomon's seal	1	
3302:						
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon's seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3302:						
Blackprince	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods' rose	1	
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon's seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3302:						
Eloika, moist---------	Grand fir/queencup beadlily (CN520)	Favorable	---	Longtube twinflower	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Queencup bead lily	5	
				Heartleaf arnica	3	
				Kinnikinnick	3	
				Starry false Solomon’s seal	3	
				White spirea	3	
				Columbia brome	2	
				Elk sedge	2	
				Low Oregongrape	2	
				Mountain sweet-cicely	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
3303:						
Scrabblers------------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3303:						
Torboy	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	23	
		Normal	---	Bluebunch wheatgrass	7	
		Unfavorable	---	Pinegrass	5	
				White spirea	5	
				Saskatoon serviceberry	3	
				Low Oregongrape	2	
				Arrowleaf balsamroot	1	
				Dalmation toadflax	1	
				Idaho fescue	1	
				Silky lupine	1	
				Woodland strawberry	1	
				Woods’ rose	1	
Kaniksu, dry	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	
Eloika	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	30	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	8	
				Columbia brome	5	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				False Solomon’s seal	3	
				Heartleaf arnica	3	
				White spirea	3	
				Bluebunch wheatgrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3303:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
3401:						
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3401:						
Hagen	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3401:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
3402:						
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3402:						
Hagen	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Stapaloop	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3402:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
3403:						
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3403:						
Hagen	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Scrabblers	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3403:						
Colburn	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
3404:						
Elmira	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	
Seaboldt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3404:						
Kaniksu, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	15	
				Baldhip rose	10	
				Pinegrass	10	
				Kinnikinnick	5	
				Low Oregongrape	5	
				Strawberry	5	
				Bluebunch wheatgrass	2	
				Elk sedge	1	
				Idaho fescue	1	
				Starry false Solomon’s seal	1	
Marble----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Rock outcrop.						
3500:						
Uhlig----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3500:						
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Narcisse----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3500:						
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
3501:						
Brincken, moist-------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Uhlig----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3501:						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Seaboldt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	
Nez Perce	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3502:						
Brincken, moist-------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Fourmound------------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Speigle--------------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3502:						
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Rock outcrop.						
3503:						
Uhlig, dry	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Bong	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3503:						
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Narcisse----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3503:						
Deno	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Seaboldt, dry	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3504:						
Brincken	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3504:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Cheney----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3504:						
Uhlig, dry----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Tucannon----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3504:						
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
3505:						
Seaboldt, warm	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3505:						
Brincken, moist-------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Nez Perce------------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Uhlig----------------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Urban land.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3600:						
Seaboldt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	
Uhlig	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Rockly	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	300	Sandberg bluegrass		40
		Normal	200	Stiff sagebrush		25
		Unfavorable	150	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Brincken, moist	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3600:						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Phoebe	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3600:						
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
3601:						
Seaboldt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3601:						
Fourmound	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Northstar	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Uhlig	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
3601:						
Phoebe	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
4000:						
Hunters	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Cedonia	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	35	
		Normal	---	Common snowberry	25	
		Unfavorable	---	Creambush oceanspray	10	
				White spirea	7	
				Saskatoon serviceberry	5	
				Woods' rose	5	
				Chokecherry	3	
				Pinegrass	3	
				Low Oregongrape	2	
				Spreading dogbane	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4000:						
Peone	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
Lakespring	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
4001:						
Cedonia	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	35	
		Normal	---	Common snowberry	25	
		Unfavorable	---	Creambush oceanspray	10	
				White spirea	7	
				Saskatoon serviceberry	5	
				Woods' rose	5	
				Chokecherry	3	
				Pinegrass	3	
				Low Oregongrape	2	
				Spreading dogbane	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4001:						
Green Bluff----------	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Hunters----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4001:						
Peone	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
4002:						
Cedonia	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	35	
		Normal	---	Common snowberry	25	
		Unfavorable	---	Creambush oceanspray	10	
				White spirea	7	
				Saskatoon serviceberry	5	
				Woods' rose	5	
				Chokecherry	3	
				Pinegrass	3	
				Low Oregongrape	2	
				Spreading dogbane	2	
Lakespring	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4002:						
Peone	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
Green Bluff	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Hunters	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4031:						
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Brincken, moist-------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Cedonia----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	35	
		Normal	---	Common snowberry	25	
		Unfavorable	---	Creambush oceanspray	10	
				White spirea	7	
				Saskatoon serviceberry	5	
				Woods’ rose	5	
				Chokecherry	3	
				Pinegrass	3	
				Low Oregongrape	2	
				Spreading dogbane	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4031:						
Green Bluff----------	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Dearyton----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	
Speigle----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4032:						
Lakespring	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Brincken, moist	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4032:						
Dearyton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	
Marble	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Speigle	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4033:						
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Brincken, moist-------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Speigle----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4033:						
Dearyton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	
Rock outcrop.						
4040:						
Wolfeson	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4040:						
Fan Lake	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	
Stapaloop	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4040:						
Bridgeson----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
4041:						
Wolfeson----------	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4041:						
Fan Lake	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	
Bridgeson	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4041:						
Stapaloop----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Bluebunch wheatgrass	5	
				Baldhip rose	3	
				Saskatoon serviceberry	2	
				Kinnikinnick	1	
				Low Oregongrape	1	
				Starry false Solomon’s seal	1	
				Strawberry	1	
				White spirea	1	
4050:						
Fan Lake----------	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4050:						
Green Bluff----------	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Klickson----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Wolfeson----------	Grand fir/ninebark (CN506)	Favorable	---	Elk sedge	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Quaking aspen	10	
				Common snowberry	8	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4050:						
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
4051:						
Fan Lake----------	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4051:						
Klickson	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Blinn, stony surface	Grand fir/ninebark (CN506)	Favorable	---	Creambush oceanspray	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Common snowberry	10	
				Elk sedge	5	
				Myrtle pachistima	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
4051:						
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Quinnamose----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5001:						
Brickel	Subalpine fir/beargrass (CN690)	Favorable	---	Common beargrass	60	
		Normal	---	Big huckleberry	10	
		Unfavorable	---	Elk sedge	10	
				Pinegrass	10	
				Grouse huckleberry	3	
				Dwarf huckleberry	2	
				Other shrubs	1	
				Other perennial forbs	1	
				Other perennial grasses	1	
Vaywood	Subalpine fir/queencup beadlily (CN620)	Favorable	---	Blue huckleberry	15	
		Normal	---	Common beargrass	15	
		Unfavorable	---	Rusty menziesia	10	
				Queencup bead lily	5	
				Sitka alder	3	
				Utah honeysuckle	3	
				Darkwoods violet	2	
				Rocky Mountain maple	2	
				False Solomon’s seal	1	
				Prince’s pine	1	
				Sidebells wintergreen	1	
				Starry false Solomon’s seal	1	
				Western rattlesnake plantain	1	
Bouldercreek	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5001:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Rock outcrop.						
5023:						
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5023:						
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5023:						
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
5024:						
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Rock outcrop.						
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5024:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5025:						
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Rock outcrop.						
Quinnamose----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5025:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5026:						
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Spokane----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Quinnamose----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5026:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5027:						
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Spokane----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Brevco----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5027:						
Quinnamose----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
Lenz----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5037:						
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Rock outcrop.						
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5037:						
Kramerhill----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Spens----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5040:						
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5040:						
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Lenz----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
5041:						
Spokane----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5041:						
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5041:						
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Rock outcrop.						
5053:						
Jacot, dry	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5053:						
Hysing, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Mallow ninebark	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Western meadowrue	5	
				Oneleaf foamflower	3	
				White spirea	3	
				False Solomon’s seal	2	
				Starry false Solomon’s seal	2	
				Piper’s anemone	1	
				Sweet-scented bedstraw	1	
Jacot----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5053:						
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	
Boulderjud-----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5060:						
Bouldercreek, moist---	Western redcedar/ladyfern (CN540)	Favorable	---	Ladyfern	30	
		Normal	---	Oneleaf foamflower	15	
		Unfavorable	---	Western oakfern	15	
				Wild ginger	10	
				Other perennial forbs	7	
				Other shrubs	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Pacific trillium	2	
				Quaking aspen	2	
				Twistedstalk	2	
				Paper birch	1	
				Sitka alder	1	
Boulderjud-----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5060:						
Lakestarr	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	
Nakarna	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Darkwoods violet	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western rattlesnake plantain	5	
				Wild ginger	5	
				Oneleaf foamflower	2	
				Western meadowrue	2	
				Mountain sweet-cicely	1	
				Oregon fairybells	1	
				Sweet-scented bedstraw	1	
				Thimbleberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5060:						
Hoodoo----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
5061:						
Nakarna----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Darkwoods violet	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western rattlesnake plantain	5	
				Wild ginger	5	
				Oneleaf foamflower	2	
				Western meadowrue	2	
				Mountain sweet-cicely	1	
				Oregon fairybells	1	
				Sweet-scented bedstraw	1	
				Thimbleberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5061:						
Nakarna, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Quaking aspen	10	
				Rocky Mountain maple	10	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Darkwoods violet	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Sitka alder	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5061:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Lakestarr----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5061:						
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
5062:						
Nakarna	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Darkwoods violet	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western rattlesnake plantain	5	
				Wild ginger	5	
				Oneleaf foamflower	2	
				Western meadowrue	2	
				Mountain sweet-cicely	1	
				Oregon fairybells	1	
				Sweet-scented bedstraw	1	
				Thimbleberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5062:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Kruse-----------------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5062:						
Nakarna, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Quaking aspen	10	
				Rocky Mountain maple	10	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Darkwoods violet	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Sitka alder	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
Quinnamose----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5067:						
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Blackprince	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5067:						
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5068:						
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Blackprince	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5068:						
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5070:						
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5070:						
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Skalan	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5071:						
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5071:						
Kramerhill----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Swakane----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5072:						
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5072:						
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Hardesty----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
5073:						
Lenz----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5073:						
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5074:						
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5074:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
5080:						
Vaywood	Subalpine fir/queencup beadlily (CN620)	Favorable	---	Blue huckleberry	15	
		Normal	---	Common beargrass	15	
		Unfavorable	---	Rusty menziesia	10	
				Queencup bead lily	5	
				Sitka alder	3	
				Utah honeysuckle	3	
				Darkwoods violet	2	
				Rocky Mountain maple	2	
				False Solomon’s seal	1	
				Prince’s pine	1	
				Sidebells wintergreen	1	
				Starry false Solomon’s seal	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5080:						
Vay	Subalpine fir/queencup beadlily (CN620)	Favorable	---	Blue huckleberry	15	
		Normal	---	Common beargrass	15	
		Unfavorable	---	Rusty menziesia	10	
				Queencup bead lily	5	
				Sitka alder	3	
				Utah honeysuckle	3	
				Darkwoods violet	2	
				Rocky Mountain maple	2	
				False Solomon’s seal	1	
				Prince’s pine	1	
				Sidebells wintergreen	1	
				Starry false Solomon’s seal	1	
				Western rattlesnake plantain	1	
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Brickel	Subalpine fir/beargrass (CN690)	Favorable	---	Common beargrass	60	
		Normal	---	Big huckleberry	10	
		Unfavorable	---	Elk sedge	10	
				Pinegrass	10	
				Grouse huckleberry	3	
				Dwarf huckleberry	2	
				Other shrubs	1	
				Other perennial forbs	1	
				Other perennial grasses	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5081:						
Vaywood----------	Subalpine fir/queencup beadlily (CN620)	Favorable	---	Blue huckleberry	15	
		Normal	---	Common beargrass	15	
		Unfavorable	---	Rusty menziesia	10	
				Queencup bead lily	5	
				Sitka alder	3	
				Utah honeysuckle	3	
				Darkwoods violet	2	
				Rocky Mountain maple	2	
				False Solomon’s seal	1	
				Prince’s pine	1	
				Sidebells wintergreen	1	
				Starry false Solomon’s seal	1	
				Western rattlesnake plantain	1	
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5081:						
Vay	Subalpine fir/queencup beadlily (CN620)	Favorable	---	Blue huckleberry	15	
		Normal	---	Common beargrass	15	
		Unfavorable	---	Rusty menziesia	10	
				Queencup bead lily	5	
				Sitka alder	3	
				Utah honeysuckle	3	
				Darkwoods violet	2	
				Rocky Mountain maple	2	
				False Solomon’s seal	1	
				Prince’s pine	1	
				Sidebells wintergreen	1	
				Starry false Solomon’s seal	1	
				Western rattlesnake plantain	1	
Brickel	Subalpine fir/beargrass (CN690)	Favorable	---	Common beargrass	60	
		Normal	---	Big huckleberry	10	
		Unfavorable	---	Elk sedge	10	
				Pinegrass	10	
				Grouse huckleberry	3	
				Dwarf huckleberry	2	
				Other shrubs	1	
				Other perennial forbs	1	
				Other perennial grasses	1	
Rock outcrop.						
5090:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5090:						
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5091:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Ardtoo	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	
Blackprince	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5091:						
Kellerbutte	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5092:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Rock outcrop.						
Ardtoo	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	
Blackprince	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5092:						
Quinnamose----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
5093:						
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5093:						
Brevco----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5093:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Rock outcrop.						
5094:						
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5094:						
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5094:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Brevco----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5102:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5102:						
Jacot----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5102:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Rock outcrop.						
5103:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5103:						
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon's seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince's pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper's anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	
Jacot-----------------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince's pine	5	
				Queencup bead lily	5	
				Starry false Solomon's seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5103:						
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler's willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon's seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5104:						
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5104:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5104:						
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	
Rock outcrop.						
5105:						
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5105:						
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5105:						
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	
Blackprince----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5105:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Rock outcrop.						
5110:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5110:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5111:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Nakarna----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Darkwoods violet	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western rattlesnake plantain	5	
				Wild ginger	5	
				Oneleaf foamflower	2	
				Western meadowrue	2	
				Mountain sweet-cicely	1	
				Oregon fairybells	1	
				Sweet-scented bedstraw	1	
				Thimbleberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5111:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5112:						
Bouldercreek, dry-----	Grand fir/queencup beadlily (CN520)	Favorable	---	Rocky Mountain maple	10	
		Normal	---	Starry false Solomon’s seal	8	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Other perennial forbs	5	
				Pathfinder	5	
				Pinegrass	5	
				Queencup bead lily	5	
				Thimbleberry	5	
				White spirea	5	
				Oregon fairybells	3	
				Western meadowrue	3	
				Piper’s anemone	2	
				Sweet-scented bedstraw	2	
				Columbia brome	1	
				Darkwoods violet	1	
				False Solomon’s seal	1	
				Fivestamen miterwort	1	
				Myrtle pachistima	1	
				Pacific trillium	1	
				Pyrola	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5112:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Brevco----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5112:						
Jacot	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Kellerbutte	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5113:						
Bouldercreek, dry-----	Grand fir/queencup beadlily (CN520)	Favorable	---	Rocky Mountain maple	10	
		Normal	---	Starry false Solomon’s seal	8	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Other perennial forbs	5	
				Pathfinder	5	
				Pinegrass	5	
				Queencup bead lily	5	
				Thimbleberry	5	
				White spirea	5	
				Oregon fairybells	3	
				Western meadowrue	3	
				Piper’s anemone	2	
				Sweet-scented bedstraw	2	
				Columbia brome	1	
				Darkwoods violet	1	
				False Solomon’s seal	1	
				Fivestamen miterwort	1	
				Myrtle pachistima	1	
				Pacific trillium	1	
				Pyrola	1	
				Western rattlesnake plantain	1	
Kellerbutte-----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5113:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Brevco----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5113:						
Jacot----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Rock outcrop.						
5114:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5114:						
Bouldercreek, dry-----	Grand fir/queencup beadlily (CN520)	Favorable	---	Rocky Mountain maple	10	
		Normal	---	Starry false Solomon’s seal	8	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Other perennial forbs	5	
				Pathfinder	5	
				Pinegrass	5	
				Queencup bead lily	5	
				Thimbleberry	5	
				White spirea	5	
				Oregon fairybells	3	
				Western meadowrue	3	
				Piper’s anemone	2	
				Sweet-scented bedstraw	2	
				Columbia brome	1	
				Darkwoods violet	1	
				False Solomon’s seal	1	
				Fivestamen miterwort	1	
				Myrtle pachistima	1	
				Pacific trillium	1	
				Pyrola	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5114:						
Brevco----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Jacot----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5120:						
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5120:						
Jacot----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5120:						
Nakarna	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Darkwoods violet	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western rattlesnake plantain	5	
				Wild ginger	5	
				Oneleaf foamflower	2	
				Western meadowrue	2	
				Mountain sweet-cicely	1	
				Oregon fairybells	1	
				Sweet-scented bedstraw	1	
				Thimbleberry	1	
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5121:						
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
Brevco----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5121:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Rock outcrop.						
5122:						
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5122:						
Brevco	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	10	
				Baldhip rose	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	3	
				False Solomon’s seal	2	
				Strawberry	2	
				White spirea	2	
				Columbia brome	1	
				Common yarrow	1	
				Low Oregongrape	1	
				Showy aster	1	
				Silky lupine	1	
Ardtoo	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5122:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Rock outcrop.						
5123:						
Kellerbutte----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Myrtle pachistima	6	
				White spirea	6	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5123:						
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	
Blackprince-----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	30	
		Normal	---	Creambush oceanspray	25	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Baldhip rose	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	3	
				Strawberry	2	
				White spirea	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5123:						
Ardtoo----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	10	
		Unfavorable	---	Baldhip rose	8	
				Columbia brome	5	
				Heartleaf arnica	5	
				Mountain sweet-cicely	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Thimbleberry	5	
				Western meadowrue	5	
				White spirea	5	
				Elk sedge	2	
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5123:						
Jacot	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
5130:						
Brodeer	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Wild ginger	10	
				Big huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Oregon fairybells	5	
				Pathfinder	5	
				Piper’s anemone	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				White spirea	3	
				Prince’s pine	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5130:						
Jacot	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Jacot, dry	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5130:						
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Lakestarr	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5140:						
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	
Hysing, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Mallow ninebark	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Western meadowrue	5	
				Oneleaf foamflower	3	
				White spirea	3	
				False Solomon’s seal	2	
				Starry false Solomon’s seal	2	
				Piper’s anemone	1	
				Sweet-scented bedstraw	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5140:						
Brodeer	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Wild ginger	10	
				Big huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Oregon fairybells	5	
				Pathfinder	5	
				Piper’s anemone	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				White spirea	3	
				Prince’s pine	2	
Jacot	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5140:						
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	
5141:						
Jacot	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5141:						
Hysing----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Columbia brome	1	
				Pinegrass	1	
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5141:						
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	
Brodeer----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Wild ginger	10	
				Big huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Oregon fairybells	5	
				Pathfinder	5	
				Piper’s anemone	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				White spirea	3	
				Prince’s pine	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5142:						
Jacot	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Hysing	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Columbia brome	1	
				Pinegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5142:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5142:						
Hysing, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Mallow ninebark	5	
				Prince's pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Western meadowrue	5	
				Oneleaf foamflower	3	
				White spirea	3	
				False Solomon's seal	2	
				Starry false Solomon's seal	2	
				Piper's anemone	1	
				Sweet-scented bedstraw	1	
5143:						
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince's pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon's seal	5	
				White spirea	5	
				Woods' rose	5	
				Colombia brome	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5143:						
Hysing, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Mallow ninebark	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Western meadowrue	5	
				Oneleaf foamflower	3	
				White spirea	3	
				False Solomon’s seal	2	
				Starry false Solomon’s seal	2	
				Piper’s anemone	1	
				Sweet-scented bedstraw	1	
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5143:						
Jacot----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5144:						
Jacot, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Common snowberry	5	
				Creambush oceanspray	5	
				Darkwoods violet	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Pinegrass	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Woods’ rose	5	
				Colombia brome	2	
Hysing, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Mallow ninebark	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Western meadowrue	5	
				Oneleaf foamflower	3	
				White spirea	3	
				False Solomon’s seal	2	
				Starry false Solomon’s seal	2	
				Piper’s anemone	1	
				Sweet-scented bedstraw	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5144:						
Boulderjud----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
Boulderjud, dry-------	Grand fir/queencup beadlily (CN520)	Favorable	---	Queencup bead lily	10	
		Normal	---	Rocky Mountain maple	10	
		Unfavorable	---	Starry false Solomon’s seal	8	
				Baldhip rose	5	
				Big huckleberry	5	
				Columbia brome	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Pathfinder	5	
				Prince’s pine	5	
				Thimbleberry	5	
				Mountain sweet-cicely	2	
				Piper’s anemone	2	
				Saskatoon serviceberry	2	
				Sweet-scented bedstraw	2	
				Darkwoods violet	1	
				Low Oregongrape	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5144:						
Jacot	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Blue huckleberry	5	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
5211:						
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5211:						
Keeler, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Longtube twinflower	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Bunchberry dogwood	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5211:						
Kramerhill----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
5212:						
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon's seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon's seal	1	
				Idaho goldthread	1	
				Piper's anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5212:						
Keeler----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5212:						
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
5213:						
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5213:						
Keeler, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Longtube twinflower	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Bunchberry dogwood	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5213:						
Quinnamose	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Baldhip rose	10	
				Pinegrass	10	
				Low Oregongrape	3	
				Rocky Mountain maple	3	
				Woodland strawberry	3	
				Pathfinder	2	
				Saskatoon serviceberry	2	
				Columbia brome	1	
				Idaho goldthread	1	
				Mountain sweet-cicely	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
Boulderjud	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Big huckleberry	5	
				Columbia brome	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5310:						
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5310:						
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
5313:						
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5313:						
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Skalan	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5313:						
Clayton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	10	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Common yarrow	3	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5314:						
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Lenz	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5314:						
Skalan	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	
Rock outcrop.						
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5321:						
Kramerhill----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
Uhlig----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Skalan----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5321:						
Glenrose----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
Bong, moist----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5321:						
Endoaquolls, deep-----	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
5322:						
Kramerhill-----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5322:						
Skalan	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Blue wildrye	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Douglas' hawthorn	5	
				Hook violet	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spike trisetum	5	
				Spreading dogbane	5	
Spokane	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Uhlig	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5322:						
Endoaquolls, deep-----	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Rock outcrop.						
5412:						
Keeler----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5412:						
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Micapeak----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	
Santa----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Elk sedge	10	
		Unfavorable	---	Mallow ninebark	10	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5412:						
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Lakestarr----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5413:						
Keeler----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5413:						
Bouldercreek, dry-----	Grand fir/queencup beadlily (CN520)	Favorable	---	Rocky Mountain maple	10	
		Normal	---	Starry false Solomon’s seal	8	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Creambush oceanspray	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Other perennial forbs	5	
				Pathfinder	5	
				Pinegrass	5	
				Queencup bead lily	5	
				Thimbleberry	5	
				White spirea	5	
				Oregon fairybells	3	
				Western meadowrue	3	
				Piper’s anemone	2	
				Sweet-scented bedstraw	2	
				Columbia brome	1	
				Darkwoods violet	1	
				False Solomon’s seal	1	
				Fivestamen miterwort	1	
				Myrtle pachistima	1	
				Pacific trillium	1	
				Pyrola	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5413:						
Lakestarr	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5414:						
Keeler----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5414:						
Lakestarr	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	
Micapeak	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	5	
				Columbia brome	5	
				Low Oregongrape	5	
				Pathfinder	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	2	
				Woodland strawberry	2	
				Common yarrow	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5414:						
Bouldercreek----------	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	
5512:						
Santa----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	34	
		Normal	---	Heartleaf arnica	19	
		Unfavorable	---	Creambush oceanspray	17	
				Common snowberry	16	
				Pine reedgrass	12	
				Baldhip rose	8	
				Rocky Mountain maple	8	
				Saskatoon serviceberry	5	
				Woodland strawberry	5	
				Low Oregongrape	4	
				Birchleaf spirea	3	
				Blue huckleberry	3	
				Sweet-scented bedstraw	3	
				American trailplant	2	
				Sideflower miterwort	2	
				Starry false Solomon’s seal	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5512:						
Cavendish----------	Grand fir/ninebark (CN506)	Favorable	---	Northern twinflower	26	
		Normal	---	Pinegrass	17	
		Unfavorable	---	Goldthread	16	
				Myrtle pachistima	12	
				Blue huckleberry	10	
				Thimbleberry	10	
				Birchleaf spirea	8	
				Bunchberry dogwood	7	
				Rocky Mountain maple	7	
				Starry false Solomon’s seal	7	
				Baldhip rose	5	
				Common snowberry	5	
				Hooker fairybells	5	
				American trailplant	4	
				Brackenfern	3	
				Mallow ninebark	3	
				Queencup beadlily	3	
				Western meadowrue	3	
				Colombia brome	2	
				Creambush oceanspray	2	
				Low Oregongrape	2	
				Saskatoon serviceberry	2	
				Sweetscented bedstraw	2	
Crumarine----------	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		50
		Normal	1,300	Alpine timothy		30
		Unfavorable	850	Basin wildrye		5
				Carex		5
				Mat muhly		5
				Other forbs		5

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5512:						
Reggear----------	Grand fir/queencup beadlily (CN520)	Favorable	400	Northern twinflower	26	
		Normal	200	Pinegrass	17	
		Unfavorable	50	Goldthread	16	
				Myrtle pachistima	12	
				Blue huckleberry	10	
				Thimbleberry	10	
				Birchleaf spirea	8	
				Bunchberry dogwood	7	
				Rocky Mountain maple	7	
				Starry false Solomons seal	7	
				Baldhip rose	5	
				Common snowberry	5	
				Hooker fairybells	5	
				American trailplant	4	
				Brackenfern	3	
				Mallow ninebark	3	
				Queencup beadlily	3	
				Western meadowrue	3	
				Colombia brome	2	
				Creambush oceanspray	2	
				Low Oregongrape	2	
				Saskatoon serviceberry	2	
				Sweetscented bedstraw	2	
Santa, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	34	
		Normal	---	Pine reedgrass	32	
		Unfavorable	---	Creambush oceanspray	22	
				Common snowberry	16	
				Elk sedge	16	
				Bluebunch wheatgrass	14	
				Lewis mockorange	13	
				Rocky Mountain maple	6	
				Birchleaf spirea	5	
				Saskatoon serviceberry	5	
				Low Oregongrape	4	
				Arrowleaf balsamroot	3	
				Baldhip rose	3	
				Woodland strawberry	3	
				Colombia brome	2	
				False Solomon’s seal	2	
				Goldthread	2	
				Idaho fescue	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5513:						
Santa	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Elk sedge	10	
		Unfavorable	---	Mallow ninebark	10	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Taney	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods’ rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5602:						
Lakestarr	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	
Santa	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Elk sedge	10	
		Unfavorable	---	Mallow ninebark	10	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5602:						
Keeler----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
Kruse----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5602:						
Lakestarr, dry--------	Grand fir/queencup beadlily (CN520)	Favorable	---	Baldhip rose	10	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Creambush oceanspray	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Oregon fairybells	3	
				Colombia brome	2	
				Heartleaf arnica	2	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Idaho goldthread	1	
				Oneleaf foamflower	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Fluvaquents, frigid---	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5602:						
Lovell----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas’ hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
5603:						
Lakestarr----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Baldhip rose	5	
		Normal	---	Bunchberry dogwood	5	
		Unfavorable	---	Creambush oceanspray	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Darkwoods violet	1	
				Mountain sweet-cicely	1	
				Oneleaf foamflower	1	
				Piper’s anemone	1	
				Pyrola	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Utah honeysuckle	1	
				Western meadowrue	1	
				Western rattlesnake plantain	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5603:						
Santa----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Elk sedge	10	
		Unfavorable	---	Mallow ninebark	10	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	
Keeler----------	Western hemlock/queencup beadlily (CN570)	Favorable	---	Idaho goldthread	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Myrtle pachistima	10	
				Bunchberry dogwood	5	
				Common snowberry	5	
				Darkwoods violet	5	
				Oneleaf foamflower	5	
				Other shrubs	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	
				White spirea	5	
				Rocky Mountain maple	3	
				Pathfinder	2	
				Columbia brome	1	
				Pinegrass	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5603:						
Kruse	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Myrtle pachistima	10	
				Pinegrass	10	
				Baldhip rose	5	
				Heartleaf arnica	5	
				Sweet-scented bedstraw	5	
				Woodland strawberry	5	
				Starry false Solomon’s seal	3	
				Pathfinder	2	
				Columbia brome	1	
				False Solomon’s seal	1	
				Idaho goldthread	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Bouldercreek	Western hemlock/wild ginger (CN575)	Favorable	---	Idaho goldthread	15	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Oneleaf foamflower	10	
				Wild ginger	10	
				Oregon fairybells	5	
				Other shrubs	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
				Western rattlesnake plantain	5	
				Baldhip rose	2	
				Big huckleberry	2	
				Bunchberry dogwood	1	
				Columbia brome	1	
				Darkwoods violet	1	
				Pacific trillium	1	
				Pathfinder	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
5603:						
Lakestarr, dry--------	Grand fir/queencup beadlily (CN520)	Favorable	---	Baldhip rose	10	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Rocky Mountain maple	10	
				Creambush oceanspray	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Oregon fairybells	3	
				Colombia brome	2	
				Heartleaf arnica	2	
				Sweet-scented bedstraw	2	
				Elk sedge	1	
				Idaho goldthread	1	
				Oneleaf foamflower	1	
				Pacific trillium	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Western meadowrue	1	
Taney----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods’ rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6001:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Broadax----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6001:						
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Mondovi----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6001:						
Caldwell	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Narcisse	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6002:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6002:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6002:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Narcisse----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6002:						
Mondovi	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
6003:						
Athena	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6003:						
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Reardan----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6003:						
Staley----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Hanning----------	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6003:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Mondovi----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6004:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6004:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Staley	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6004:						
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1
Broadax	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6010:						
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon’s seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods’ rose	5	
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods’ rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6010:						
Carlinton, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	
Santa----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Elk sedge	10	
		Unfavorable	---	Mallow ninebark	10	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	
Lovell----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6010:						
Aquepts, frigid-------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Tufted hairgrass		20
		Normal	6,000	Hawthorn		15
		Unfavorable	5,000	Redtop		7
				Quaking aspen		5
				Redosier dogwood		5
				Sedge		5
				Western river alder		5
				Prickly currant		3
				Reed canarygrass		3
				Serviceberry		3
				Douglas spirea		1
6011:						
Freeman----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon’s seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	
Carlinton, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6011:						
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6011:						
Lovell----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6012:						
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon’s seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	
Carlinton, dry	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Creambush oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods’ rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6012:						
Taney----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods' rose	5	
Lovell----------	SEMI-WET MEADOW 15+ PZ (R044XY602WA)	Favorable	5,000	Basin wildrye		43
		Normal	4,000	Tufted hairgrass		10
		Unfavorable	3,000	Sedge		8
				Bluejoint		5
				Northwest cinquefoil		5
				Rose		5
				Rush		5
				Bluebunch wheatgrass		3
				Northern reedgrass		3
				Saskatoon serviceberry		2
				Cowparsnip		1
				Douglas' hawthorn		1
				Idaho fescue		1
				Meadow barley		1
				Quaking aspen		1
				Saltgrass		1
				Sandberg bluegrass		1
				Slender wheatgrass		1
				Smooth horsetail		1
				Wax currant		1
				Willow		1
Santa----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Elk sedge	10	
		Unfavorable	---	Mallow ninebark	10	
				Baldhip rose	5	
				Columbia brome	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Pathfinder	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6021:						
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Naff----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6021:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Thatuna----------	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6021:						
Staley----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
6031:						
Staley----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6031:						
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Lance	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6031:						
Broadax	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Garfield	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6040:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon's seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6040:						
Glenrose----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
Southwick----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6041:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon's seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6041:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Driscoll----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6041:						
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Glenrose----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6042:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6042:						
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon's seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	
Gibbs	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Idaho fescue	3	
				Common yarrow	1	
				Silky lupine	1	
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6042:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
6043:						
Larkin----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Driscoll----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6043:						
Southwick----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Freeman----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon's seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6043:						
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
6045:						
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6045:						
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods’ rose	5	
Freeman	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Idaho fescue	7	
		Unfavorable	---	Pinegrass	7	
				Saskatoon serviceberry	6	
				Tall Oregongrape	6	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				False Solomon’s seal	5	
				Hawkweed	5	
				Rose	5	
				Silky lupine	5	
				White stoneseed	5	
				Elk sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6045:						
Glenrose----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6050:						
Tilma	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Latah	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6050:						
Caldwell	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6050:						
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6061:						
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Staley	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6061:						
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1
Broadax	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6061:						
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6061:						
Glenrose----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
6062:						
Naff----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6062:						
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1
Garfield	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6062:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Staley----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6062:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Caldwell	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6064:						
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Athena	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6064:						
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Staley----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6064:						
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1
Caldwell	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6064:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
6067:						
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6067:						
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Thatuna----------	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6067:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6067:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Staley	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6068:						
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Garfield	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6068:						
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1
Athena	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6068:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Staley----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6072:						
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1
Athena	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6072:						
Lance	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6073:						
Hanning----------	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6073:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Mondovi----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6073:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
6074:						
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6074:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6074:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
6080:						
Nez Perce	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Brincken, moist	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6080:						
Lakespring	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Uhlig	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
6093:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6093:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Broadax----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6093:						
Lance	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6093:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
6094:						
Reardan----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6094:						
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1
Broadax	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6094:						
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6094:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
6096:						
Broadax----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6096:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Lance	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6096:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6096:						
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1
6110:						
Broadax	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6110:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Lance----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6110:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6110:						
Hanning	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1
6111:						
Broadax	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6111:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Reardan----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6111:						
Lance	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6111:						
Naff----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Hanning----------	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		69
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Sandberg bluegrass		3
				Common snowberry		2
				Rose		2
				Balsamroot		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Pinegrass		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Sedge		1
				Sticky geranium		1
				Threetip sagebrush		1
				Wax currant		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6112:						
Broadax----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6112:						
Lance	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6112:						
Naff----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6130:						
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6130:						
Athena----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6130:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
6131:						
Thatuna----------	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		12
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6131:						
Naff	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Athena	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6131:						
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6131:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
6140:						
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6140:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Bobbitt	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Gibbs	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Idaho fescue	3	
				Common yarrow	1	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6141:						
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other shrubs	5	
				Other perennial forbs	5	
				White spirea	5	
				Woodland strawberry	5	
				Woods' rose	5	
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Pinegrass	10	
				Woods' rose	10	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Bluebunch wheatgrass	3	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6141:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6141:						
Latah	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
6200:						
Morical	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6200:						
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	
Kramerhill	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6200:						
Reardan	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Swakane	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Athena	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6201:						
Morical	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1
Athena	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		35
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
				Threetip sagebrush		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6201:						
Dearyton	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods' rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	
Glenrose	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	Pinegrass	6	
				White spirea	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Chokecherry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Mountain sweet-cicely	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Spreading dogbane	5	
				Blue wildrye	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
6201:						
Kramerhill----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Creambush oceanspray	10	
				Baldhip rose	8	
				Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Blue wildrye	3	
				Bluebunch wheatgrass	3	
				Douglas' hawthorn	3	
				Spike trisetum	3	
				Hook violet	2	
				Mountain sweet-cicely	2	
				Silky lupine	2	
				Spreading dogbane	2	
				Common yarrow	1	
				Strawberry	1	
7090:						
Urban land.						
Lenz, disturbed-------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
				Wyeth buckwheat	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7090:						
Spokane, disturbed----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Swakane, disturbed----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Rock outcrop.						
7091:						
Urban land.						
Lenz, disturbed-------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
				Wyeth buckwheat	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7091:						
Spokane, disturbed----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Swakane, disturbed----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
Rock outcrop.						
7101:						
Pits.						
Dumps.						
7102:						
Riverwash.						
7103:						
Xerolls, warm, mass wasted----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Creambush oceanspray	20	
		Unfavorable	---	Common snowberry	15	
				Woods' rose	10	
				Low Oregongrape	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Bluebunch wheatgrass	3	
				Idaho fescue	3	
				White spirea	3	
				Scouler's willow	2	
				Silky lupine	2	
				Common yarrow	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7103:						
Bobbitt----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	30	
		Normal	---	Baldhip rose	10	
		Unfavorable	---	White spirea	10	
				Bluebunch wheatgrass	8	
				Arrowleaf balsamroot	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Pinegrass	2	
				Rough fescue	2	
				Common yarrow	1	
				Idaho fescue	1	
				Strawberry	1	
Brincken, moist, mass wasted----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Dearyton----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	White spirea	10	
		Unfavorable	---	Woods’ rose	8	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Kinnikinnick	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7103:						
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Speigle, mass wasted--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Rock outcrop.						
7104:						
Xerolls, cool, mass wasted----------	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon's seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7104:						
Fan Lake----------	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Longtube twinflower	10	
		Unfavorable	---	Baldhip rose	5	
				Creambush oceanspray	5	
				Idaho goldthread	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Columbia brome	2	
				Low Oregongrape	2	
				Elk sedge	1	
				Heartleaf arnica	1	
				Kinnikinnick	1	
				Mountain sweet-cicely	1	
				Pathfinder	1	
				Piper’s anemone	1	
				Prince’s pine	1	
				Starry false Solomon’s seal	1	
				Sweet-scented bedstraw	1	
				Western meadowrue	1	
				White spirea	1	
				Woodland strawberry	1	
Klickson, mass wasted	Douglas-fir/ninebark (CN260)	Favorable	---	Creambush oceanspray	30	
		Normal	---	Mallow ninebark	20	
		Unfavorable	---	Common snowberry	10	
				Pinegrass	10	
				Elk sedge	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	5	
				Baldhip rose	3	
				False Solomon’s seal	2	
				Western meadowrue	2	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Idaho fescue	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7104:						
Lakespring----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Green Bluff----------	Douglas-fir/ninebark (CN260)	Favorable	---	Pinegrass	20	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Creambush oceanspray	10	
				Mallow ninebark	8	
				Rose	8	
				Elk sedge	5	
				Kinnikinnick	5	
				Myrtle pachistima	5	
				Silky lupine	5	
				Strawberry	5	
				Blue wildrye	3	
				Low Oregongrape	3	
Blinn, stony surface--	Grand fir/ninebark (CN506)	Favorable	---	Creambush oceanspray	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Common snowberry	10	
				Elk sedge	5	
				Myrtle pachistima	5	
				Sweet-scented bedstraw	5	
				Western meadowrue	5	
Elmira----------	Douglas-fir/common snowberry (CN310)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	10	
		Unfavorable	---	Chokecherry	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Snowbrush ceanothus	5	
				Woods' rose	3	
				Idaho fescue	2	
				Kinnikinnick	1	
				Silky lupine	1	
				Woodland strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7104:						
Kronquist----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas' spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Rock outcrop.						
7105:						
Urban land, gravelly substratum.						
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7105:						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
7106:						
Urban land, gravelly substratum.						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Marblespring, disturbed----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7107:						
Urban land, basalt bedrock substratum.						
Northstar, disturbed--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
				Wyeth buckwheat	1	
Rock outcrop.						
7110:						
Urban land.						
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7110:						
Bong, moist, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Garrison, disturbed---	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty, disturbed---	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7110:						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7111:						
Urban land.						
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7111:						
Bong, moist, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Garrison, disturbed---	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty, disturbed---	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7111:						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7112:						
Urban land.						
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7112:						
Bong, moist, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Garrison, disturbed---	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty, disturbed---	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7112:						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7115:						
Urban land.						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7115:						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7115:						
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7116:						
Urban land.						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Marble, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7116:						
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7117:						
Urban land.						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Marble, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7117:						
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7120:						
Urban land.						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7120:						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Hardesty, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
7121:						
Urban land.						
Marble, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7121:						
Hardesty, disturbed---	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Hagen, disturbed------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	15	
		Normal	---	Low Oregongrape	10	
		Unfavorable	---	Pinegrass	10	
				Arrowleaf balsamroot	5	
				Kinnikinnick	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Bluebunch wheatgrass	3	
				Elk sedge	2	
				White spirea	2	
				Common yarrow	1	
				Idaho fescue	1	
				Silky lupine	1	
Marblespring, disturbed----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7121:						
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
7122:						
Urban land.						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Bong, moist, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7122:						
Hardesty, disturbed---	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Marblespring, disturbed----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7123:						
Urban land.						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Rock outcrop.						
Rubble land.						
Speigle, disturbed----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods’ rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7130:						
Urban land.						
Northstar, disturbed--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
Rockly, disturbed-----	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	---	Sandberg bluegrass		40
		Normal	---	Stiff sagebrush		25
		Unfavorable	---	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7130:						
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
7131:						
Urban land.						
Northstar, disturbed--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7131:						
Rockly, disturbed-----	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	---	Sandberg bluegrass		40
		Normal	---	Stiff sagebrush		25
		Unfavorable	---	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7132:						
Urban land.						
Northstar, disturbed--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						
Rockly, disturbed-----	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	---	Sandberg bluegrass		40
		Normal	---	Stiff sagebrush		25
		Unfavorable	---	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Seaboldt, disturbed---	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7132:						
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7134:						
Urban land.						
Northstar, disturbed--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7134:						
Rockly, disturbed-----	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	---	Sandberg bluegrass		40
		Normal	---	Stiff sagebrush		25
		Unfavorable	---	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Speigle, disturbed----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7134:						
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
7140:						
Urban land.						
Uhlig, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Seaboldt, warm, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7140:						
Brincken, moist, disturbed----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Nez Perce, disturbed--	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
7150:						
Urban land.						
Seaboldt, disturbed---	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7150:						
Brincken, moist, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Uhlig, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Phoebe, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis’ mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7150:						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
7151:						
Urban land.						
Seaboldt, disturbed---	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	
Brincken, moist, disturbed-----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7151:						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis’ mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Uhlig, disturbed------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7152:						
Urban land.						
Seaboldt, disturbed---	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Arrowleaf balsamroot	5	
		Unfavorable	---	Bluebunch wheatgrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Common yarrow	3	
				Idaho fescue	3	
				Silky lupine	1	
Rock outcrop.						
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Marblespring, disturbed----------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7152:						
Springdale, disturbed, stony surface	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7163:						
Urban land.						
Spens, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Marble, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7163:						
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7170:						
Urban land.						
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7170:						
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
7171:						
Urban land.						
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7171:						
Marblespring, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Brincken, moist, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Opportunity, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7171:						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
7172:						
Urban land.						
Springdale, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
Marblespring, disturbed-----	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7172:						
Spens, disturbed------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
7177:						
Urban land.						
Seaboldt, warm, disturbed----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Brincken, moist, disturbed----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7177:						
Nez Perce, disturbed--	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
Uhlig, disturbed------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Stutler, disturbed----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7178:						
Urban land.						
Seaboldt, warm, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Brincken, moist, disturbed	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Nez Perce, disturbed	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7178:						
Uhlig, disturbed------	Ponderosa pine/bluebunch wheatgrass (CN130)	Favorable	---	Bluebunch wheatgrass	30	
		Normal	---	Idaho fescue	5	
		Unfavorable	---	Arrowleaf balsamroot	3	
				Common yarrow	2	
				Other perennial forbs	2	
				Silky lupine	2	
				Prairie Junegrass	1	
				Rough fescue	1	
				Sandberg bluegrass	1	
Stutler, disturbed----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Woods' rose	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Silky lupine	3	
				Idaho fescue	2	
				White spirea	2	
				Common yarrow	1	
				Kinnikinnick	1	
7179:						
Urban land.						
Seaboldt, warm, disturbed----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7179:						
Brincken, moist, disturbed----------	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Rockly, disturbed-----	VERY SHALLOW 16-24 PZ (R009XY301WA)	Favorable	---	Sandberg bluegrass		40
		Normal	---	Stiff sagebrush		25
		Unfavorable	---	Buckwheat		10
				Bluebunch wheatgrass		4
				Bottlebrush squirreltail		4
				Onespike oatgrass		4
				Idaho fescue		3
				Fleabane		2
				Lomatium		2
				Phlox		2
				Wild onion		2
				Balsamroot		1
				Prairie Junegrass		1
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7180: Urban land.						
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Bong, moist, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Hardesty, disturbed---	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7180:						
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	
7181:						
Urban land.						
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis' mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	
Bong, moist, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7181:						
Hardesty, disturbed---	Ponderosa pine/ninebark (CN190)	Favorable	---	Pinegrass	20	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Bluebunch wheatgrass	10	
				Common snowberry	10	
				Kinnikinnick	10	
				Rose	10	
				Cascade Oregongrape	5	
				Common yarrow	5	
				Creambush oceanspray	5	
				Quaking aspen	5	
				Saskatoon serviceberry	5	
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
7182:						
Urban land.						
Phoebe, disturbed-----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Pinegrass	5	
				Rose	3	
				Saskatoon serviceberry	3	
				Arrowleaf balsamroot	2	
				Common yarrow	2	
				Low Oregongrape	2	
				Common chokecherry	1	
				Idaho fescue	1	
				Lewis’ mockorange	1	
				Nineleaf biscuitroot	1	
				Silky lupine	1	
				White stoneseed	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7182:						
Bong, moist, disturbed	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	35	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Woods' rose	10	
				Arrowleaf balsamroot	7	
				Bluebunch wheatgrass	6	
				Douglas' hawthorn	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				White spirea	3	
				Elk sedge	2	
				Common yarrow	1	
				Silky lupine	1	
				Strawberry	1	
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork's bill	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7190:						
Urban land.						
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Northstar, disturbed--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7191:						
Urban land.						
Lakespring, disturbed	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	25	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Pinegrass	10	
				Rose	10	
				Creambush oceanspray	5	
				Redstem ceanothus	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
				Low Oregongrape	3	
				Bluebunch wheatgrass	2	
Marble, disturbed-----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	30	
		Normal	---	Bluebunch wheatgrass	5	
		Unfavorable	---	Saskatoon serviceberry	5	
				Arrowleaf balsamroot	2	
				Bluegrass	1	
				Common yarrow	1	
				Hawkweed	1	
				Red besseya	1	
				Silky lupine	1	
				Sticky currant	1	
				Sticky geranium	1	
				Stork’s bill	1	
Northstar, disturbed--	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Rose	6	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Pinegrass	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Buckwheat	1	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
7197:						
Urban land.						
Spokane, disturbed----	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	40	
		Normal	---	Pinegrass	15	
		Unfavorable	---	Baldhip rose	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Saskatoon serviceberry	5	
				Silky lupine	5	
				Bluebunch wheatgrass	1	
				Common yarrow	1	
				Snowbrush ceanothus	1	
Lenz, disturbed-------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	7	
		Unfavorable	---	Rose	6	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	4	
				Saskatoon serviceberry	3	
				Chokecherry	2	
				Low Oregongrape	2	
				Silky lupine	2	
				Common yarrow	1	
				Idaho fescue	1	
				Sandberg bluegrass	1	
				Strawberry	1	
				Wyeth buckwheat	1	
Rock outcrop.						
Swakane, disturbed----	Ponderosa pine/Idaho fescue (CN140)	Favorable	---	Idaho fescue	60	
		Normal	---	Bluebunch wheatgrass	15	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Prairie Junegrass	5	
				Buckwheat	2	
				Common yarrow	1	
7200:						
Rock outcrop, cliffs.						
Rubble land, cliffs.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
8000:						
Pywell	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Bellslake	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
8000:						
Hoodoo----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Inland saltgrass		25
		Normal	6,000	Sedges		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas’ spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
8001:						
Saltese----------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
8001:						
Cocolalla----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
Narcisse----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Idaho fescue		5
				Sedge		5
				Reed canarygrass		4
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Eriogonum		1
				Foxtail barley		1
				Hawthorn		1
				Inland saltgrass		1
				Rose		1
				Rush		1
				Saskatoon serviceberry		1
				Sticky geranium		1
				Wax currant		1
Water.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
8002:						
Saltese, drained------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1
Fluvaquentic Haplosaprists--------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Hawthorn		1
				Lupine		1
				Prickly currant		1
				Quaking aspen		1
				Redosier dogwood		1
				Saskatoon serviceberry		1
				Western river alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
8002:						
Peone, drained--------	WET MEADOW 16-24 PZ (R044XY601WA)	Favorable	7,000	Saltgrass		25
		Normal	6,000	Sedge		15
		Unfavorable	5,000	Tufted hairgrass		13
				Basin wildrye		10
				Rush		10
				Reed canarygrass		6
				Sandberg bluegrass		6
				Redtop		4
				Black hawthorn		3
				Alkali cordgrass		1
				Cattail		1
				Cinquefoil		1
				Douglas spirea		1
				Lupine		1
				Quaking aspen		1
				Redosier dogwood		1
				Western river alder		1
Endoaquolls----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9124:						
Caldwell----------	LOAMY BOTTOM 16-24 PZ (R009XY402WA)	Favorable	4,000	Basin wildrye		44
		Normal	3,000	Bluebunch wheatgrass		11
		Unfavorable	2,000	Tufted hairgrass		11
				Clusterlilly		5
				Idaho fescue		5
				Sedge		5
				Small camas		5
				Lupine		3
				Redtop		3
				Mulesears wyethia		2
				Balsamroot		1
				Chrysactinia		1
				Cinquefoil		1
				Hawthorn		1
				Rose		1
				Sandberg bluegrass		1
Cald----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9124:						
Endoaquolls	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Thatuna	COOL LOAMY 16-24 PZ (R009XY103WA)	Favorable	1,500	Idaho fescue		65
		Normal	1,300	Bluebunch wheatgrass		13
		Unfavorable	1,100	Common snowberry		2
				Low Oregongrape		2
				Pine reedgrass		2
				Rose		2
				Sandberg bluegrass		2
				White spirea		2
				Balsamroot		1
				Basin wildrye		1
				Buckwheat		1
				Indian paintbrush		1
				Lomatium		1
				Phlox		1
				Prairiesmoke		1
				Saskatoon serviceberry		1
				Silky lupine		1
				Sticky geranium		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9124:						
Latah-----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		37
		Normal	6,000	Reed canarygrass		10
		Unfavorable	4,000	Rush		10
				Sedge		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Basin wildrye		3
				Cinquefoil		2
				Goldenrod		2
				Redosier dogwood		2
				Rose		2
				Saskatoon serviceberry		2
				Alder		1
				Black cottonwood		1
				Canada bluegrass		1
				Quaking aspen		1
9300:						
Taney-----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods' rose	5	
Carlinton, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9300:						
Latahco	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		40
		Normal	1,300	Alpine timothy		20
		Unfavorable	850	Basin wildrye		5
				Meadow barley		5
				Sandberg bluegrass		5
				Sedge		5
				Aster		3
				Clover		3
				Common yarrow		3
				Cinquefoil		2
				Rush		2
				Slender wheatgrass		2
				Wildiris		2
				Willow		2
				Rose		1
Setters	Douglas-fir/ninebark (CN260)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Columbia brome	5	
				Pine reedgrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Woods' rose	5	
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Oceanspray	10	
				White spirea	10	
				Columbia brome	5	
				Oregongrape	5	
				Pine reedgrass	5	
				Rose	5	
				Strawberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9301:						
Taney----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods' rose	5	
Carlinton, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	
Benewah----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
				White spirea	5	
Setters----------	Douglas-fir/ninebark (CN260)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Columbia brome	5	
				Pine reedgrass	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				White spirea	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9301:						
Latahco	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		40
		Normal	1,300	Alpine timothy		20
		Unfavorable	850	Basin wildrye		5
				Meadow barley		5
				Sandberg bluegrass		5
				Sedge		5
				Aster		3
				Clover		3
				Common yarrow		3
				Cinquefoil		2
				Rush		2
				Slender wheatgrass		2
				Wildiris		2
				Willow		2
				Rose		1
9330:						
Carlinton	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Elk sedge	5	
				Idaho fescue	5	
				Sweet-scented bedstraw	5	
Carlinton, dry	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9330:						
Lovell----------	MEADOW (R009XY018ID)	Favorable	4500	Tufted hairgrass		20
		Normal	3500	Nebraska sedge		15
		Unfavorable	2500	Alpine timothy		5
				Bulrush		5
				Cinquefoil		5
				Clover		5
				Curled dock		5
				Lambstongue ragwort		5
				Meadow barley		5
				Northern water plantain		5
				Prairiesmoke		5
				Rush		5
				Slender wheatgrass		5
				Western aster		5
				Willow		5
Taney----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods' rose	5	
Benewah----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9335:						
Carlinton, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	
Carlinton------------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Elk sedge	5	
				Idaho fescue	5	
				Sweet-scented bedstraw	5	
Taney----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods' rose	5	
Benewah----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9335:						
Lovell----------	MEADOW (R009XY018ID)	Favorable	4,500	Tufted hairgrass		20
		Normal	3,500	Nebraska sedge		15
		Unfavorable	2,500	Alpine timothy		5
				Bulrush		5
				Cinquefoil		5
				Clover		5
				Curled dock		5
				Lambstongue ragwort		5
				Meadow barley		5
				Northern water plantain		5
				Prairiesmoke		5
				Rush		5
				Slender wheatgrass		5
				Western aster		5
				Willow		5
Santa----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				Arnica	5	
				Idaho goldthread	5	
				Piper’s anemone	5	
				Rose	5	
				Sweetcicely	5	
				White spirea	5	
9336:						
Carlinton, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Columbia brome	5	
Taney----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods’ rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9336:						
Carlinton	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	20	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Baldhip rose	5	
				Elk sedge	5	
				Idaho fescue	5	
				Sweet-scented bedstraw	5	
Benewah	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
				White spirea	5	
Santa	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	15	
		Unfavorable	---	Common snowberry	10	
				Saskatoon serviceberry	10	
				Arnica	5	
				Idaho goldthread	5	
				Piper’s anemone	5	
				Rose	5	
				Sweetcicely	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9336:						
Latahco	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		40
		Normal	1,300	Alpine timothy		20
		Unfavorable	850	Basin wildrye		5
				Meadow barley		5
				Sandberg bluegrass		5
				Sedge		5
				Aster		3
				Clover		3
				Common yarrow		3
				Cinquefoil		2
				Rush		2
				Slender wheatgrass		2
				Wildiris		2
				Willow		2
				Rose		1
9340:						
Arson	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Scouler’s willow	10	
				Common snowberry	5	
				Lewis’ mockorange	5	
				Rose	5	
				White spirea	5	
				Columbia brome	3	
				Pathfinder	3	
				Strawberry	3	
				Elk sedge	2	
				Pinegrass	2	
				Sweet-scented bedstraw	2	
Lotuspoint	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9340:						
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross’ sedge	5	
				White spirea	5	
Bechtel----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Common snowberry	5	
		Unfavorable	---	Elk sedge	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Piper’s anemone	5	
				Queencup bead lily	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				False lily of the valley	3	
				Heartleaf arnica	3	
				Oneleaf foamflower	3	
				Western meadow-rue	3	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9340:						
Sinkler	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				Baldhip rose	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Sweet-scented bedstraw	5	
9341:						
Sinkler	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				Baldhip rose	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Sweet-scented bedstraw	5	
Arson	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Scouler’s willow	10	
				Common snowberry	5	
				Lewis’ mockorange	5	
				Rose	5	
				White spirea	5	
				Columbia brome	3	
				Pathfinder	3	
				Strawberry	3	
				Elk sedge	2	
				Pinegrass	2	
				Sweet-scented bedstraw	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9341:						
Benewah	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Baldhip rose	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
				White spirea	5	
Sharptop	Grand fir/twinflower (CN590)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Elk sedge	5	
				Idaho fescue	5	
				Longtube twinflower	5	
				Pinegrass	5	
				Sweet-scented bedstraw	5	
				White spirea	5	
Bechtel	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Common snowberry	5	
		Unfavorable	---	Elk sedge	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Oregon fairybells	5	
				Piper’s anemone	5	
				Queencup bead lily	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Strawberry	5	
				False lily of the valley	3	
				Heartleaf arnica	3	
				Oneleaf foamflower	3	
				Western meadow-rue	3	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9341:						
Grangemont, warm------	Western redcedar/queencup beadlily (CN530)	Favorable	---	Baldhip rose	5	
		Normal	---	Darkwoods violet	5	
		Unfavorable	---	Foamflower	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
9342:						
Sinkler, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Idaho fescue	5	
				Low Oregongrape	5	
				Rose	5	
				Smallflower miterwort	5	
				Strawberry	5	
				Columbia brome	3	
				Common yarrow	2	
Arson, dry-----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Common snowberry	5	
				Lewis’ mockorange	5	
				Low Oregongrape	5	
				Rose	5	
				Columbia brome	3	
				Strawberry	3	
				Common yarrow	2	
				Oneleaf foamflower	2	
				Sweet-scented bedstraw	2	
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross’ sedge	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9342:						
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Lotuspoint	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Sinkler	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				Baldhip rose	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Pinegrass	5	
				Scouler’s willow	5	
				Sweet-scented bedstraw	5	
9350:						
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Oceanspray	10	
				White spirea	10	
				Columbia brome	5	
				Oregongrape	5	
				Pine reedgrass	5	
				Rose	5	
				Strawberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9350:						
Larkin----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	20	
		Normal	---	White spirea	10	
		Unfavorable	---	Columbia brome	5	
				Woods' rose	5	
Latahco----------	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		40
		Normal	1,300	Alpine timothy		20
		Unfavorable	850	Basin wildrye		5
				Meadow barley		5
				Sandberg bluegrass		5
				Sedge		5
				Aster		3
				Clover		3
				Common yarrow		3
				Cinquefoil		2
				Rush		2
				Slender wheatgrass		2
				Wildiris		2
				Willow		2
				Rose		1
Cald----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9350:						
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other perennial forbs	5	
				White spirea	5	
				Woods' rose	5	
Taney	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods' rose	5	
9355:						
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Oceanspray	10	
				White spirea	10	
				Columbia brome	5	
				Oregongrape	5	
				Pine reedgrass	5	
				Rose	5	
				Strawberry	5	
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other perennial forbs	5	
				White spirea	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9355:						
Larkin----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	20	
		Normal	---	White spirea	10	
		Unfavorable	---	Columbia brome	5	
				Woods' rose	5	
Latahco----------	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		40
		Normal	1,300	Alpine timothy		20
		Unfavorable	850	Basin wildrye		5
				Meadow barley		5
				Sandberg bluegrass		5
				Sedge		5
				Aster		3
				Clover		3
				Common yarrow		3
				Cinquefoil		2
				Rush		2
				Slender wheatgrass		2
				Wildiris		2
				Willow		2
				Rose		1
Cald----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9355:						
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		36
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
9356:						
Southwick----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Oceanspray	10	
				White spirea	10	
				Columbia brome	5	
				Oregongrape	5	
				Pine reedgrass	5	
				Rose	5	
				Strawberry	5	
Driscoll----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other perennial forbs	5	
				White spirea	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9356:						
Larkin----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	20	
		Normal	---	White spirea	10	
		Unfavorable	---	Columbia brome	5	
				Woods' rose	5	
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		36
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
Cald----------	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9363:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	20	
		Normal	---	White spirea	10	
		Unfavorable	---	Columbia brome	5	
				Woods' rose	5	
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other perennial forbs	5	
				White spirea	5	
				Woods' rose	5	
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Oceanspray	10	
				White spirea	10	
				Columbia brome	5	
				Oregongrape	5	
				Pine reedgrass	5	
				Rose	5	
				Strawberry	5	
Latahco	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		40
		Normal	1,300	Alpine timothy		20
		Unfavorable	850	Basin wildrye		5
				Meadow barley		5
				Sandberg bluegrass		5
				Sedge		5
				Aster		3
				Clover		3
				Common yarrow		3
				Cinquefoil		2
				Rush		2
				Slender wheatgrass		2
				Wildiris		2
				Willow		2
				Rose		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9363:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Garfield	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		36
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
9364:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	20	
		Normal	---	White spirea	10	
		Unfavorable	---	Columbia brome	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9364:						
Southwick	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Oceanspray	10	
				White spirea	10	
				Columbia brome	5	
				Oregongrape	5	
				Pine reedgrass	5	
				Rose	5	
				Strawberry	5	
Driscoll	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other perennial forbs	5	
				White spirea	5	
				Woods' rose	5	
Latahco	DRY MEADOW (R009XY019ID)	Favorable	2,000	Nevada bluegrass		40
		Normal	1,300	Alpine timothy		20
		Unfavorable	850	Basin wildrye		5
				Meadow barley		5
				Sandberg bluegrass		5
				Sedge		5
				Aster		3
				Clover		3
				Common yarrow		3
				Cinquefoil		2
				Rush		2
				Slender wheatgrass		2
				Wildiris		2
				Willow		2
				Rose		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9364:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
Taney	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Oceanspray	10	
				Saskatoon serviceberry	10	
				White spirea	10	
				Columbia brome	5	
				Pinegrass	5	
				Strawberry	5	
				Woods' rose	5	
9367:						
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	20	
		Normal	---	White spirea	10	
		Unfavorable	---	Columbia brome	5	
				Woods' rose	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9367:						
Driscoll----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	25	
		Normal	---	Pinegrass	10	
		Unfavorable	---	Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Low Oregongrape	5	
				Other perennial forbs	5	
				White spirea	5	
				Woods' rose	5	
Garfield----------	LOAMY 16-24 PZ (R009XY102WA)	Favorable	1,500	Bluebunch wheatgrass		50
		Normal	1,300	Idaho fescue		36
		Unfavorable	1,100	Balsamroot		1
				Basin wildrye		1
				Biscuitroot		1
				Green rabbitbrush		1
				Hawthorn		1
				Lupine		1
				Milkvetch		1
				Needlegrass		1
				Phlox		1
				Rose		1
				Rough fescue		1
				Sandberg bluegrass		1
				Saskatoon serviceberry		1
				Spirea		1
Southwick----------	Ponderosa pine/ninebark (CN190)	Favorable	---	Mallow ninebark	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Oceanspray	10	
				White spirea	10	
				Columbia brome	5	
				Oregongrape	5	
				Pine reedgrass	5	
				Rose	5	
				Strawberry	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9367:						
Cald	WET MEADOW 16-24 PZ (R009XY601WA)	Favorable	7,500	Tufted hairgrass		38
		Normal	6,000	Rush		11
		Unfavorable	4,000	Sedge		11
				Reed canarygrass		10
				Black hawthorn		4
				Idaho fescue		4
				Redtop		4
				Willow		4
				Cinquefoil		2
				Redosier dogwood		2
				Basin wildrye		1
				Black cottonwood		1
				Canada bluegrass		1
				Common snowberry		1
				Douglas spirea		1
				Goldenrod		1
				Quaking aspen		1
				Rose		1
				Saskatoon serviceberry		1
				Thinleaf alder		1
9610:						
Schumacher	LOAMY 16-22 - Provisional (R009XY003ID)	Favorable	2,200	Bluebunch wheatgrass		30
		Normal	1,700	Idaho fescue		25
		Unfavorable	1,300	Big bluegrass		10
				Nineleaf lomatium		10
				Arrowleaf balsamroot		5
				Buckwheat		5
				Common snowberry		5
				Common yarrow		5
				Phlox		3
				Penstemon		2
Tekoa	SOUTH SLOPE LOAMY 16-22 - Provisional (R009XY004ID)	Favorable	1600	Bluebunch wheatgrass		65
		Normal	1,300	Idaho fescue		20
		Unfavorable	1,000	Arrowleaf balsamroot		5
				Sandberg bluegrass		5
				Nineleaf lomatium		3
				Common yarrow		2
Libertybutte	SHALLOW SOUTH SLOPE STONY 16-22 (R009XY026ID)	Favorable	850	Bluebunch wheatgrass		65
		Normal	650	Sandberg bluegrass		21
		Unfavorable	400	Arrowleaf balsamroot		10
				Common yarrow		3
				Lupine		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9610:						
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Larkin	Ponderosa pine/common snowberry (CN170)	Favorable	---	Common snowberry	20	
		Normal	---	White spirea	10	
		Unfavorable	---	Columbia brome	5	
				Woods' rose	5	
9611:						
Schumacher	LOAMY 16-22 - Provisional (R009XY003ID)	Favorable	2,200	Bluebunch wheatgrass		30
		Normal	1,700	Idaho fescue		25
		Unfavorable	1,300	Big bluegrass		10
				Nineleaf lomatium		10
				Arrowleaf balsamroot		5
				Buckwheat		5
				Common snowberry		5
				Common yarrow		5
				Phlox		3
				Penstemon		2
Tekoa	SOUTH SLOPE LOAMY 16-22 - Provisional (R009XY004ID)	Favorable	1,600	Bluebunch wheatgrass		65
		Normal	1,300	Idaho fescue		20
		Unfavorable	1,000	Arrowleaf balsamroot		5
				Sandberg bluegrass		5
				Nineleaf lomatium		3
				Common yarrow		2
Libertybutte	SHALLOW SOUTH SLOPE STONY 16-22 (R009XY026ID)	Favorable	850	Bluebunch wheatgrass		65
		Normal	650	Sandberg bluegrass		21
		Unfavorable	400	Arrowleaf balsamroot		10
				Common yarrow		3
				Lupine		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9611:						
McCrosket----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Cassyhill----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	
Arson, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Common snowberry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Rose	5	
				Columbia brome	3	
				Strawberry	3	
				Common yarrow	2	
				Oneleaf foamflower	2	
				Sweet-scented bedstraw	2	
9612:						
Libertybutte----------	SHALLOW SOUTH SLOPE STONY 16-22 (R009XY026ID)	Favorable	850	Bluebunch wheatgrass		65
		Normal	650	Sandberg bluegrass		21
		Unfavorable	400	Arrowleaf balsamroot		10
				Common yarrow		3
				Lupine		1

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9612:						
Tekoa	SOUTH SLOPE LOAMY 16-22 - Provisional (R009XY004ID)	Favorable	1,600	Bluebunch wheatgrass		65
		Normal	1,300	Idaho fescue		20
		Unfavorable	1,000	Arrowleaf balsamroot		5
				Sandberg bluegrass		5
				Nineleaf lomatium		3
				Common yarrow		2
Schumacher	LOAMY 16-22 - Provisional (R009XY003ID)	Favorable	2,200	Bluebunch wheatgrass		30
		Normal	1,700	Idaho fescue		25
		Unfavorable	1,300	Big bluegrass		10
				Nineleaf lomatium		10
				Arrowleaf balsamroot		5
				Buckwheat		5
				Common snowberry		5
				Common yarrow		5
				Phlox		3
				Penstemon		2
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Cassyhill	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9613:						
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross' sedge	5	
				White spirea	5	
Lotuspoint------------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Arson, dry------------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Common snowberry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Rose	5	
				Columbia brome	3	
				Strawberry	3	
				Common yarrow	2	
				Oneleaf foamflower	2	
				Sweet-scented bedstraw	2	
Cassyhill------------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9613:						
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
9614:						
Ardenvoir, dry	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross' sedge	5	
				White spirea	5	
Lotuspoint	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Cassyhill	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9614:						
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Pinecreek	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Common snowberry	5	
				Elk sedge	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Rocky Mountain maple	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Scouler’s willow	5	
				Smallflower miterwort	5	
				Strawberry	5	
				White spirea	5	
9617:						
Tekoa	SOUTH SLOPE LOAMY 16-22 - Provisional (R009XY004ID)	Favorable	1,600	Bluebunch wheatgrass		65
		Normal	1,300	Idaho fescue		20
		Unfavorable	1,000	Arrowleaf balsamroot		5
				Sandberg bluegrass		5
				Nineleaf lomatium		3
				Common yarrow		2
Schumacher	LOAMY 16-22 - Provisional (R009XY003ID)	Favorable	2,200	Bluebunch wheatgrass		30
		Normal	1,700	Idaho fescue		25
		Unfavorable	1,300	Big bluegrass		10
				Nineleaf lomatium		10
				Arrowleaf balsamroot		5
				Buckwheat		5
				Common snowberry		5
				Common yarrow		5
				Phlox		3
				Penstemon		2

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9617:						
Libertybutte----------	SHALLOW SOUTH SLOPE STONY 16-22 (R009XY026ID)	Favorable	850	Bluebunch wheatgrass		65
		Normal	650	Sandberg bluegrass		21
		Unfavorable	400	Arrowleaf balsamroot		10
				Common yarrow		3
				Lupine		1
Cassyhill----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	
Arson, dry----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Common snowberry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Rose	5	
				Columbia brome	3	
				Strawberry	3	
				Common yarrow	2	
				Oneleaf foamflower	2	
				Sweet-scented bedstraw	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9701:						
Ardenvoir	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper's anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon's seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Lotuspoint	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9701:						
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross' sedge	5	
				White spirea	5	
Huckle, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Common snowberry	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pathfinder	5	
				Prince's pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon's seal	5	
				Utah honeysuckle	5	
				Western meadow-rue	5	
Cassyhill----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9703:						
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross’ sedge	5	
				White spirea	5	
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Lotuspoint----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9703:						
McCrosket----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Huckle, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Common snowberry	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pathfinder	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western meadow-rue	5	
Cassyhill----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9704:						
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross’ sedge	5	
				White spirea	5	
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Lotuspoint----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9704:						
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Arson, dry	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Common snowberry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Rose	5	
				Columbia brome	3	
				Strawberry	3	
				Common yarrow	2	
				Oneleaf foamflower	2	
				Sweet-scented bedstraw	2	
Cassyhill	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9706:						
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross’ sedge	5	
				White spirea	5	
Huckle----------	Western redcedar/queencup beadlily (CN530)	Favorable	---	Baldhip rose	5	
		Normal	---	Common snowberry	5	
		Unfavorable	---	Darkwoods violet	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Myrtle pachistima	5	
				Oneleaf foamflower	5	
				Oregon fairybells	5	
				Pacific trillium	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Starry false Solomon’s seal	5	
				Western rattlesnake plantain	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9706:						
McCrosket----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Saint Maries, dry-----	Grand fir/queencup beadlily (CN520)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Rocky Mountain maple	10	
				Baldhip rose	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Pinegrass	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Thimbleberry	5	
				White spirea	5	
9707:						
Huckle, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Common snowberry	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pathfinder	5	
				Prince’s pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western meadow-rue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9707:						
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Ahrs----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Big huckleberry	5	
				Common snowberry	5	
				Elk sedge	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pathfinder	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western meadow-rue	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9707:						
Saint Maries, dry-----	Grand fir/queencup beadlily (CN520)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Rocky Mountain maple	10	
				Baldhip rose	5	
				Columbia brome	5	
				Elk sedge	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Pinegrass	5	
				Queencup bead lily	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Thimbleberry	5	
				White spirea	5	
Rasser----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Columbia brome	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Honeysuckle	5	
				Pinegrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Honeyjones, warm------	Western redcedar/queencup beadlily (CN530)	Favorable	---	Blue huckleberry	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Idaho goldthread	5	
				Longtube twinflower	5	
				Prince’s pine	5	
				Queencup beadlily	5	
				Rocky Mountain maple	5	
				Western rattlesnake plantain	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9710:						
McCrosket----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Brome	5	
				Elk sedge	5	
				Idaho fescue	5	
				Pinegrass	5	
				Rose	5	
				Ross’ sedge	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9710:						
Lotuspoint	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Arson	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Scouler’s willow	10	
				Common snowberry	5	
				Lewis’ mockorange	5	
				Rose	5	
				White spirea	5	
				Columbia brome	3	
				Pathfinder	3	
				Strawberry	3	
				Elk sedge	2	
				Pinegrass	2	
				Sweet-scented bedstraw	2	
Tekoa	SOUTH SLOPE LOAMY 16-22 - Provisional (R009XY004ID)	Favorable	1,600	Bluebunch wheatgrass		65
		Normal	1,300	Idaho fescue		20
		Unfavorable	1,000	Arrowleaf balsamroot		5
				Sandberg bluegrass		5
				Nineleaf lomatium		3
				Common yarrow		2
9711:						
McCrosket	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9711:						
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Lotuspoint----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Arson----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Scouler’s willow	10	
				Common snowberry	5	
				Lewis’ mockorange	5	
				Rose	5	
				White spirea	5	
				Columbia brome	3	
				Pathfinder	3	
				Strawberry	3	
				Elk sedge	2	
				Pinegrass	2	
				Sweet-scented bedstraw	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9711:						
Huckle, dry----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Common snowberry	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pathfinder	5	
				Prince's pine	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon's seal	5	
				Utah honeysuckle	5	
				Western meadow-rue	5	
Tekoa----------	SOUTH SLOPE LOAMY 16-22 - Provisional (R009XY004ID)	Favorable	1,600	Bluebunch wheatgrass		65
		Normal	1,300	Idaho fescue		20
		Unfavorable	1,000	Arrowleaf balsamroot		5
				Sandberg bluegrass		5
				Nineleaf lomatium		3
				Common yarrow		2
9712:						
McCrosket----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Mallow ninebark	10	
				Common yarrow	5	
				Pinegrass	5	
				Rose	5	
				Strawberry	5	
				Thimbleberry	5	
				White spirea	5	
Tekoa----------	SOUTH SLOPE LOAMY 16-22 - Provisional (R009XY004ID)	Favorable	1600	Bluebunch wheatgrass		65
		Normal	1,300	Idaho fescue		20
		Unfavorable	1000	Arrowleaf balsamroot		5
				Sandberg bluegrass		5
				Nineleaf lomatium		3
				Common yarrow		2

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9712:						
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Lotuspoint----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Cassyhill----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9712:						
Rasser	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Columbia brome	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Honeysuckle	5	
				Pinegrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				White spirea	5	
9735:						
Lotuspoint, stony surface	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Cassyhill	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9735:						
Pinecreek----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Common snowberry	5	
				Elk sedge	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Rocky Mountain maple	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Scouler’s willow	5	
				Smallflower miterwort	5	
				Strawberry	5	
				White spirea	5	
Ardenvoir----------	Grand fir/ninebark (CN506)	Favorable	---	Common snowberry	10	
		Normal	---	Mallow ninebark	10	
		Unfavorable	---	Oceanspray	10	
				Dogtooth lily	5	
				Elk sedge	5	
				Heartleaf arnica	5	
				Idaho goldthread	5	
				Myrtle pachistima	5	
				Oregon fairybells	5	
				Pinegrass	5	
				Piper’s anemone	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Sweet-scented bedstraw	5	
				Western meadow-rue	5	
Rasser----------	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Columbia brome	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Honeysuckle	5	
				Pinegrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Rock outcrop.						

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9770:						
Pinecreek----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Common snowberry	5	
				Elk sedge	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Rocky Mountain maple	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Scouler’s willow	5	
				Smallflower miterwort	5	
				Strawberry	5	
				White spirea	5	
Ahrs----------	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Big huckleberry	5	
				Common snowberry	5	
				Elk sedge	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pathfinder	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon’s seal	5	
				Utah honeysuckle	5	
				Western meadow-rue	5	
Lotuspoint----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9770:						
Rasser	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Columbia brome	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Honeysuckle	5	
				Pinegrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Cassyhill	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	
Rock outcrop.						
9775:						
Pinecreek, moist	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Big huckleberry	5	
				Common snowberry	5	
				Elk sedge	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Rocky Mountain maple	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Scouler’s willow	5	
				Smallflower miterwort	5	
				Strawberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9775:						
Ahrs	Grand fir/queencup beadlily (CN520)	Favorable	---	Oceanspray	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Big huckleberry	5	
				Common snowberry	5	
				Elk sedge	5	
				Idaho goldthread	5	
				Longtube twinflower	5	
				Mallow ninebark	5	
				Myrtle pachistima	5	
				Pathfinder	5	
				Queencup bead lily	5	
				Rocky Mountain maple	5	
				Saskatoon serviceberry	5	
				Starry false Solomon's seal	5	
				Utah honeysuckle	5	
				Western meadow-rue	5	
Lotuspoint	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Rasser	Grand fir/ninebark (CN506)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Columbia brome	5	
				Common snowberry	5	
				Heartleaf arnica	5	
				Honeysuckle	5	
				Pinegrass	5	
				Rose	5	
				Saskatoon serviceberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9775:						
Honeyjones, warm------	Western redcedar/queencup beadlily (CN530)	Favorable	---	Blue huckleberry	10	
		Normal	---	Baldhip rose	5	
		Unfavorable	---	Idaho goldthread	5	
				Longtube twinflower	5	
				Prince's pine	5	
				Queencup beadlily	5	
				Rocky Mountain maple	5	
				Western rattlesnake plantain	5	
Rock outcrop.						
9776:						
Cassyhill------------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	
Lotuspoint, stony surface------------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9776:						
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Common snowberry	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Oceanspray	15	
				Rose	10	
				White spirea	10	
				Idaho fescue	5	
				Brome	3	
				Pinegrass	3	
				Elk sedge	2	
				Ross' sedge	2	
Rock outcrop.						
9778:						
Cassyhill----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	
Lotuspoint----------	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Common snowberry	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Oceanspray	15	
				Rose	10	
				White spirea	10	
				Idaho fescue	5	
				Brome	3	
				Pinegrass	3	
				Elk sedge	2	
				Ross' sedge	2	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9778:						
Pinecreek----------	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	10	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Common snowberry	5	
				Elk sedge	5	
				Myrtle pachistima	5	
				Pinegrass	5	
				Rocky Mountain maple	5	
				Rose	5	
				Saskatoon serviceberry	5	
				Scouler’s willow	5	
				Smallflower miterwort	5	
				Strawberry	5	
				White spirea	5	
Rock outcrop.						
9782:						
Ardenvoir, dry--------	Douglas-fir/ninebark (CN260)	Favorable	---	Common snowberry	15	
		Normal	---	Mallow ninebark	15	
		Unfavorable	---	Oceanspray	15	
				Rose	10	
				White spirea	10	
				Idaho fescue	5	
				Brome	3	
				Pinegrass	3	
				Elk sedge	2	
				Ross’ sedge	2	
Cassyhill----------	Ponderosa pine/common snowberry (CN170)	Favorable	---	Idaho fescue	20	
		Normal	---	Common snowberry	15	
		Unfavorable	---	Brome	10	
				Arrowleaf balsamroot	5	
				Bluebunch wheatgrass	5	
				Common yarrow	5	
				Lupine	2	
				Oceanspray	1	
				Saskatoon serviceberry	1	

Table 9.--Ecological Sites or Plant Associations and Characteristic Plant Communities--Continued

Map symbol and soil name	Ecological site or plant association	Total production		Characteristic vegetation	Composition	
		Kind of year	Dry Weight		Forest	Range
			Lb/acre		*Pct*	*Pct*
9782:						
Lotuspoint, stony surface	Douglas-fir/ninebark (CN260)	Favorable	---	Oceanspray	15	
		Normal	---	Common snowberry	10	
		Unfavorable	---	Elk sedge	10	
				Mallow ninebark	10	
				Baldhip rose	5	
				Bluebunch wheatgrass	5	
				Idaho fescue	5	
				Pinegrass	5	
				Saskatoon serviceberry	5	
				White spirea	5	
Arson, dry	Douglas-fir/ninebark (CN260)	Favorable	---	Mallow ninebark	15	
		Normal	---	Oceanspray	10	
		Unfavorable	---	Saskatoon serviceberry	10	
				Common snowberry	5	
				Lewis' mockorange	5	
				Low Oregongrape	5	
				Rose	5	
				Columbia brome	3	
				Strawberry	3	
				Common yarrow	2	
				Oneleaf foamflower	2	
				Sweet-scented bedstraw	2	
Rock outcrop.						
W:						
Water.						

Table 10.--Forest Productivity

(Absence of an entry indicates that data were not estimated. Only the map units with components that support trees are included in this table.)

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
1001:							
Bridgeson.							
Hoodoo.							
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	
Pywell.							
Endoaquolls.							
1020:							
Cocolalla.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Rockly.							
Saltese.							
Water.							
1021:							
Cocolalla.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Rockly.							
Saltese.							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Water.							
1030:							
Emdent.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Cocolalla.							
Rockly.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
1030:							
Saltese.							
1040:							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Narcisse.							
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Peone.							
Cocolalla.							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
1080:							
Narcisse.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Kronquist.							
1081:							
Narcisse.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Kronquist.							
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
1091:							
Peone, drained.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Kronquist.							
Cedonia	Ponderosa pine	102	600	100	72	40	Ponderosa pine
Endoaquolls.							
1120:							
Lovell.							
Colburn.							
Santa	Grand fir	111	031	50	175	83	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	111	600	100	124	40	Douglas-fir
	Rocky Mountain Douglas-fir	72	771	50	78	84	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
1120:							
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Kronquist.							
1130:							
Colburn.							
Hoodoo.							
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	
1200:							
Endoaquolls.							
Fluvaquents.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Saltese.							
Water.							
1300:							
Aquepts, frigid.							
Lovell.							
Colburn.							
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	65	771	50	57	90	
	Western larch	58	265	50	33	70	
Kronquist.							
Pywell.							
Water.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
2040:							
Klickson, mass wasted	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Blinn, stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	71	771	50	34	90	
	Western larch	60	265	50	81	70	
Rock outcrop.							
Xerolls, frigid, mass wasted	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
2041:							
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Blinn, stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Rock outcrop.							
Xerolls, frigid, mass wasted	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
2042:							
Rock outcrop.							
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Rubble land.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
2042:							
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
2043:							
Klickson, mass wasted	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Speigle, mass wasted	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	71	771	50	34	90	
	Western larch	60	265	50	81	70	
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Rock outcrop.							
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Xerolls, frigid, mass wasted	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	70	265	50	101	70	
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
2044:							
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	71	771	50	34	90	
	Western larch	60	265	50	81	70	
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Rock outcrop.							
Rubble land.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
2045:							
Marble, mass wasted	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Speigle, mass wasted	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Klickson, mass wasted	Ponderosa pine	92	600	100	81	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	61	771	50	58	127	Rocky Mountain Douglas fir,
	Western larch	80	265	50	122	70	western larch
Rock outcrop.							
2046:							
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	61	771	50	58	127	Rocky Mountain Douglas-fir,
	Western larch	80	265	50	122	70	western larch
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Rock outcrop.							
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Rubble land.							
2050:							
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Rock outcrop.							
2051:							
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Rubble land.							
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
2052:							
Brincken, moist, mass wasted	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Speigle, mass wasted	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Gibbs	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Klickson, mass wasted	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Narcisse.							
Rock outcrop.							
2053:							
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Rock outcrop.							
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Rubble land.							
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
2054:							
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Rubble land.							
Rock outcrop.							
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
2070:							
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Gibbs	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
2070:							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Stutler	Ponderosa pine	64	600	100	28	55	Ponderosa pine
2071:							
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Gibbs	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Rock outcrop.							
2080:							
Gibbs	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
Rock outcrop.							
Caldwell.							
2081:							
Gibbs	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Rock outcrop.							
Lacy	Ponderosa pine	83	600	100	35	40	Ponderosa pine
2090:							
Rockly.							
Tucannon.							
Rock outcrop.							
Rubble land.							
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Uhlig, dry.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
2160:							
Scoap	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	85	600	100	77	40	
	Rocky Mountain Douglas-fir	65	771	50	67	123	
	Western larch	---	---	---	---	---	
Rubble land.							
Rock outcrop.							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
3015:							
Seaboldt, dry.							
Cheney.							
Uhlig, dry.							
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Narcisse.							
Rock outcrop.							
3020:							
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Phoebe, dry	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
3022:							
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Phoebe	Ponderosa pine	100	600	100	102	40	Ponderosa pine
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3024:							
Phoebe	Ponderosa pine	100	600	100	102	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3025:							
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Phoebe	Ponderosa pine	100	600	100	102	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3026:							
Phoebe, dry	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3030:							
Bonner	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	106	600	100	114	40	Douglas-fir,
	Rocky Mountain Douglas-fir	---	---	---	---	---	western larch
	Western larch	---	---	---	---	---	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	57	50	Rocky Mountain
	Rocky Mountain Douglas-fir	68	771	50	74	121	Douglas-fir, western larch
	Western larch	---	---	---	---	---	
Stien, very stony surface	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	60	265	50	81	70	Douglas-fir,
	Rocky Mountain Douglas-fir	---	---	---	---	---	western larch
	Western larch	100	600	100	102	40	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3030:							
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Colburn.							
3031:							
Bonner	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	114	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Stien, very stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	60	265	50	81	70	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	100	600	100	102	40	
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
3039:							
Alecanyon.							
Rockly.							
Cheney.							
Deno.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3039:							
Rock outcrop.							
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Cocolalla.							
3040:							
Cheney.							
Alecanyon.							
Uhlig, dry.							
Rock outcrop.							
Rockly.							
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
3044:							
Cheney.							
Uhlig, dry.							
Alecanyon.							
Cocolalla.							
Rock outcrop.							
Seaboldt, dry.							
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
3046:							
Cheney.							
Seaboldt, dry.							
Rock outcrop.							
Rockly.							
Uhlig, dry.							
Cocolalla.							
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
3047:							
Rockly.							
Rock outcrop.							
Deno.							
Rock outcrop, cliffs.							
Cocolalla.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3047:							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
3048:							
Rockly.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Cocolalla.							
Rock outcrop.							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Water.							
3049:							
Rockly.							
Rock outcrop.							
Cocolalla.							
Rock outcrop, cliffs.							
Deno.							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Water.							
3054:							
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Clayton, silty subsoil--	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	---	---	---	---	---	
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Phoebe, dry	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
3055:							
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3055:							
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Clayton, silty subsoil--	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	---	---	---	---	---	
Endoaquolls.							
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
3056:							
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
3057:							
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
3060:							
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
3061:							
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3061:							
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Endoaquolls.							
3062:							
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Rock outcrop.							
3070:							
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	91	520	100	110	100	Rocky Mountain
	Ponderosa pine	93	600	100	78	40	Douglas-fir,
	Rocky Mountain Douglas-fir	---	---	---	---	---	western larch
	Western larch	60	265	50	81	70	
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	110	600	100	122	40	Douglas-fir,
	Rocky Mountain Douglas-fir	65	771	50	57	90	western larch
	Western larch	58	265	50	33	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	57	50	Rocky Mountain
	Rocky Mountain Douglas-fir	68	771	50	74	121	Douglas-fir, western larch
	Western larch	---	---	---	---	---	
Colburn.							
Stien, very stony surface	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	60	265	50	81	70	Douglas-fir,
	Rocky Mountain Douglas-fir	---	---	---	---	---	western larch
	Western larch	100	600	100	102	40	
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	71	600	100	56	50	Rocky Mountain
	Rocky Mountain Douglas-fir	83	771	50	111	109	Douglas-fir, western larch
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3071:							
Stien, very stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	60	265	50	81	70	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	100	600	100	102	40	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
Colburn.							
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
3072:							
Stien, very stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	60	265	50	81	70	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	100	600	100	102	40	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
Colburn.							
Rock outcrop.							
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3073:							
Stien, very stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	60	265	50	81	70	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	100	600	100	102	40	
Rock outcrop.							
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
3074:							
Eloika, moist	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	60	265	50	81	70	
	Western white pine	60	570	50	118	105	
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	65	771	50	57	90	
	Western larch	58	265	50	33	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Bonner	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	114	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Colburn.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3074:							
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	70	265	50	101	70	
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	
3080:							
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
3081:							
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
3082:							
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3083:							
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
3084:							
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Garrison, extremely stony surface	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
3085:							
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Urban land.							
3087:							
Garrison, extremely stony surface	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Urban land.							
3090:							
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Endoaquolls.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3091:							
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Glenrose, cobbly surface	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
3101:							
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	71	771	50	34	90	
	Western larch	60	265	50	81	70	
Blinn	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Hoodoo.							
3102:							
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	71	771	50	34	90	
	Western larch	60	265	50	81	70	
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Hoodoo.							
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3110:							
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Stutler	Ponderosa pine	64	600	100	28	55	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Seaboldt, warm	Ponderosa pine	45	600	100	34	60	Ponderosa pine
Rockly.							
Cocolalla.							
3112:							
Stutler, extremely bouldery surface	Ponderosa pine	64	600	100	28	55	Ponderosa pine
Rockly.							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Cocolalla.							
Rock outcrop.							
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
3113:							
Stutler	Ponderosa pine	64	600	100	28	55	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Rock outcrop.							
3114:							
Rockly.							
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Rock outcrop.							
Cocolalla.							
Water.							
3115:							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3115:							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Rockly.							
Rubble land.							
Cocolalla.							
Stutler	Ponderosa pine	64	600	100	28	55	Ponderosa pine
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	61	771	50	58	127	Rocky Mountain Douglas-fir,
	Western larch	80	265	50	122	70	western larch
3116:							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Rockly.							
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Rock outcrop.							
Cocolalla.							
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
3117:							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Rock outcrop.							
Rockly.							
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Cocolalla.							
Rubble land.							
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
3118:							
Rockly.							
Cocolalla.							
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Rock outcrop.							
Water.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3120:							
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
3121:							
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3122:							
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	81	600	100	29	40	Rocky Mountain
	Rocky Mountain Douglas-fir	50	771	50	35	138	Douglas-fir
	Western larch	---	---	---	---	---	
3123:							
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Spens, cool	Lodgepole pine	---	---	---	---	---	Douglas fir,
	Ponderosa pine	86	600	100	50	40	ponderosa pine
	Rocky Mountain Douglas-fir	50	771	50	35	138	
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3123:							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3126:							
Rock outcrop.							
Northstar	Ponderosa pine	73	600	100	33	45	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Rockly.							
Rubble land.							
3127:							
Marblespring	Ponderosa pine	92	600	100	37	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Phoebe	Ponderosa pine	100	600	100	102	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
3130:							
Phoebe	Ponderosa pine	100	600	100	102	40	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3131:							
Phoebe	Ponderosa pine	100	600	100	102	40	Ponderosa pine
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3132:							
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Phoebe	Ponderosa pine	100	600	100	102	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3132:							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3133:							
Phoebe, dry	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3134:							
Phoebe, dry	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3135:							
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Phoebe, dry	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3140:							
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Springdale, stony surface	Ponderosa pine	80	600	100	37	40	Ponderosa pine
3141:							
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Garrison	Ponderosa pine	96	600	100	57	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3141:							
Opportunity	Ponderosa pine	100	600	100	40	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3142:							
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3143:							
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	80	600	100	69	40	Rocky Mountain
	Rocky Mountain Douglas-fir	60	771	50	56	128	Douglas-fir, western larch
	Western larch	50	265	50	63	70	
3144:							
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	80	600	100	69	40	Rocky Mountain
	Rocky Mountain Douglas-fir	60	771	50	56	128	Douglas-fir, western larch
	Western larch	50	265	50	63	70	
Bonner	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	106	600	100	114	40	Douglas-fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	110	600	100	122	40	Douglas-fir, western larch
	Rocky Mountain Douglas-fir	65	771	50	57	90	
	Western larch	58	265	50	33	70	
3145:							
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	80	600	100	69	40	Rocky Mountain
	Rocky Mountain Douglas-fir	60	771	50	56	128	Douglas-fir, western larch
	Western larch	50	265	50	63	70	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3145:							
Scoap	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	85	600	100	77	40	
	Rocky Mountain Douglas-fir	65	771	50	67	123	
	Western larch	---	---	---	---	---	
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
3146:							
Scoap	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	85	600	100	77	40	
	Rocky Mountain Douglas-fir	65	771	50	67	123	
	Western larch	---	---	---	---	---	
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Rock outcrop.							
Rubble land.							
3147:							
Spens, cool	Lodgepole pine	---	---	---	---	---	Douglas fir, ponderosa pine
	Ponderosa pine	86	600	100	50	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Springdale	Ponderosa pine	80	600	100	37	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3147:							
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
3148:							
Spens, cool	Lodgepole pine	---	---	---	---	---	Douglas fir, ponderosa pine
	Ponderosa pine	86	600	100	50	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
Wapal	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	80	600	100	69	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
3200:							
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
Colburn.							
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
3201:							
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3201:							
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
3202:							
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Rock outcrop.							
3210:							
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	65	771	50	57	90	
	Western larch	58	265	50	33	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3210:							
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Colburn.							
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	
3211:							
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	65	771	50	57	90	
	Western larch	58	265	50	33	70	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
Colburn.							
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
3212:							
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	105	600	100	112	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3212:							
Seaboldt	Ponderosa pine	70	600	100	55	50	Ponderosa pine
Stapaloop	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	108	600	100	72	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	65	771	50	57	90	
	Western larch	58	265	50	33	70	
Rock outcrop.							
3220:							
Stapaloop	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	108	600	100	72	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	70	265	50	101	70	
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	105	600	100	112	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average- age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3221:							
Stapaloop	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	108	600	100	72	40	Rocky Mountain
	Rocky Mountain Douglas-fir	75	771	50	91	115	Douglas-fir, western larch
	Western larch	---	---	---	---	---	
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	105	600	100	112	40	Rocky Mountain
	Rocky Mountain Douglas-fir	60	771	50	56	128	Douglas-fir
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	---	---	---	---	---	Douglas-fir,
	Rocky Mountain Douglas-fir	60	771	50	56	128	western larch
	Western larch	70	265	50	101	70	
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	71	600	100	56	50	Rocky Mountain
	Rocky Mountain Douglas-fir	83	771	50	111	109	Douglas-fir, western larch
	Western larch	---	---	---	---	---	
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	110	600	100	122	40	Douglas-fir,
	Rocky Mountain Douglas-fir	65	771	50	57	90	western larch
	Western larch	58	265	50	33	70	
3222:							
Stapaloop	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	108	600	100	72	40	Rocky Mountain
	Rocky Mountain Douglas-fir	75	771	50	91	115	Douglas-fir, western larch
	Western larch	---	---	---	---	---	
Seaboldt	Ponderosa pine	70	600	100	55	50	Ponderosa pine
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	105	600	100	112	40	Rocky Mountain
	Rocky Mountain Douglas-fir	60	771	50	56	128	Douglas-fir
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	---	---	---	---	---	Douglas-fir,
	Rocky Mountain Douglas-fir	60	771	50	56	128	western larch
	Western larch	70	265	50	101	70	
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3300:							
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	105	600	100	112	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
Colburn.							
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
3301:							
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	105	600	100	112	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
Colburn.							
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Kaniksu	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	65	771	50	57	90	
	Western larch	58	265	50	33	70	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3302:							
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Eloika, moist	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	60	265	50	81	70	
	Western white pine	60	570	50	118	105	
3303:							
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Torboy	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	71	600	100	56	50	
	Rocky Mountain Douglas-fir	83	771	50	111	109	
	Western larch	---	---	---	---	---	
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	105	600	100	112	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
Eloika	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	91	520	100	110	100	
	Ponderosa pine	93	600	100	78	40	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	60	265	50	81	70	
Colburn.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3401:							
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Colburn.							
3402:							
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Stapaloop	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	108	600	100	72	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Colburn.							
3403:							
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Hagen	Lodgepole pine	94	520	100	115	100	Ponderosa pine
	Ponderosa pine	97	600	100	83	40	
Scrabblers	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	91	600	100	57	50	
	Rocky Mountain Douglas-fir	68	771	50	74	121	
	Western larch	---	---	---	---	---	
Colburn.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3404:							
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Seaboldt	Ponderosa pine	70	600	100	55	50	Ponderosa pine
Kaniksu, dry	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	105	600	100	112	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Rock outcrop.							
3500:							
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Narcisse.							
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
3501:							
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Seaboldt	Ponderosa pine	70	600	100	55	50	Ponderosa pine
Nez Perce	Ponderosa pine	85	---		77	40	Ponderosa pine
3502:							
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Fourmound	Ponderosa pine	69	600	100	84	50	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Rock outcrop.							
3503:							
Uhlig, dry.							
Bong	Ponderosa pine	72	600	100	29	---	Ponderosa pine
Cheney.							
Narcisse.							
Deno.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
3503:							
Seaboldt, dry.							
3505:							
Seaboldt, warm----------	Ponderosa pine------	45	600	100	34	60	Ponderosa pine
Brincken, moist---------	Ponderosa pine------	---	---	---	---	---	Ponderosa pine
Nez Perce---------------	Ponderosa pine------	85	---		77	40	Ponderosa pine
Uhlig-------------------	Ponderosa pine------	85	600	100	77	40	Ponderosa pine
Urban land.							
3600:							
Seaboldt----------------	Ponderosa pine------	70	600	100	55	50	Ponderosa pine
Uhlig-------------------	Ponderosa pine------	85	600	100	77	40	Ponderosa pine
Rockly.							
Brincken, moist---------	Ponderosa pine------	---	---	---	---	---	Ponderosa pine
Fourmound---------------	Ponderosa pine------	69	600	100	84	50	Ponderosa pine
Phoebe------------------	Ponderosa pine------	100	600	100	102	40	Ponderosa pine
Narcisse.							
3601:							
Seaboldt----------------	Ponderosa pine------	70	600	100	55	50	Ponderosa pine
Fourmound---------------	Ponderosa pine------	69	600	100	84	50	Ponderosa pine
Northstar---------------	Ponderosa pine------	73	600	100	33	45	Ponderosa pine
Uhlig-------------------	Ponderosa pine------	85	600	100	77	40	Ponderosa pine
Phoebe------------------	Ponderosa pine------	100	600	100	102	40	Ponderosa pine
4000:							
Hunters-----------------	Ponderosa pine------	108	600	100	72	40	Ponderosa pine
Cedonia-----------------	Ponderosa pine------	102	600	100	72	40	Ponderosa pine
Peone.							
Lakespring--------------	Ponderosa pine------	65	600	100	50	50	Ponderosa pine
4001:							
Cedonia-----------------	Ponderosa pine------	102	600	100	72	40	Ponderosa pine
Green Bluff-------------	Ponderosa pine------	120	600	100	141	40	Ponderosa pine,
	Rocky Mountain Douglas-fir--------	71	771	50	34	90	Rocky Mountain Douglas fir,
	Western larch-------	60	265	50	81	70	western larch
Lakespring--------------	Ponderosa pine------	65	600	100	50	50	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
4001:							
Hunters	Ponderosa pine	108	600	100	72	40	Ponderosa pine
Peone.							
4002:							
Cedonia	Ponderosa pine	102	600	100	72	40	Ponderosa pine
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Peone.							
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	34	90	Rocky Mountain Douglas fir,
	Western larch	60	265	50	81	70	western larch
Hunters	Ponderosa pine	108	600	100	72	40	Ponderosa pine
4031:							
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Cedonia	Ponderosa pine	102	600	100	72	40	Ponderosa pine
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	34	90	Rocky Mountain Douglas fir,
	Western larch	60	265	50	81	70	western larch
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
4032:							
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Marble	Ponderosa pine	78	600	100	48	40	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Rock outcrop.							
4033:							
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Speigle	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
4040:							
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	70	265	50	101	70	
Stapaloop	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	108	600	100	72	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	
Bridgeson.							
4041:							
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	70	265	50	101	70	
Bridgeson.							
Stapaloop	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	108	600	100	72	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	
4050:							
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	70	265	50	101	70	
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	71	771	50	34	90	
	Western larch	60	265	50	81	70	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
4050:							
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Wolfeson	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	50	265	50	63	70	
	Western white pine	60	570	50	118	105	
Kronquist.							
4051:							
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western larch	70	265	50	101	70	
Klickson	Ponderosa pine	92	600	100	81	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	61	771	50	58	127	
	Western larch	80	265	50	122	70	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Blinn, stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Kronquist.							
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
5001:							
Brickel	Grand fir	---	---	---	---	---	Rocky Mountain Douglas-fir, subalpine fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Subalpine fir	70	412	100	63	110	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5001:							
Vaywood	Engelmann spruce	---	---	---	---	---	Rocky Mountain Douglas-fir, subalpine fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Subalpine fir	90	412	100	91	90	
	Western larch	70	265	50	101	70	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104		
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Rock outcrop.							
5023:							
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Rock outcrop.							
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
5024:							
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Rock outcrop.							
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5024:							
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
5025:							
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Rock outcrop.							
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
5026:							
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5027:							
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Rock outcrop.							
5037:							
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Rock outcrop.							
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Spens	Ponderosa pine	86	600	100	50	40	Ponderosa pine
5040:							
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5041:							
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	48	40	Rocky Mountain
	Rocky Mountain Douglas-fir	70	771	50	49	90	Douglas-fir
Rock outcrop.							
5053:							
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	120	600	100	141	40	Douglas-fir,
	Rocky Mountain Douglas-fir	70	771	50	71	90	western larch, western white pine
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	48	40	Rocky Mountain
	Rocky Mountain Douglas-fir	70	771	50	49	90	Douglas-fir
Hysing, dry	Grand fir	60	031	50	76	120	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	90	600	100	85	40	Douglas-fir,
	Rocky Mountain Douglas-fir	75	771	50	91	115	western larch
	Western larch	---	---	---	---	---	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain
	Lodgepole pine	---	---	---	---	---	Douglas-fir,
	Rocky Mountain Douglas-fir	70	771	50	79	119	western larch, western white pine
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain
	Lodgepole pine	80	520	100	88	100	Douglas-fir,
	Rocky Mountain Douglas-fir	75	771	50	91	115	western larch
	Western larch	60	265	50	81	70	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5053:							
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5060:							
Bouldercreek, moist	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	---	---	---	---	---	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Nakarna	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	100	990	100	142	60	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
Hoodoo.							
5061:							
Nakarna	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	100	990	100	142	60	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
Nakarna, dry	Grand fir	110	031	50	129	104	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	90	771	50	173	83	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5061:							
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
5062:							
Nakarna	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	100	990	100	142	60	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Nakarna, dry	Grand fir	110	031	50	129	104	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	90	771	50	173	83	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5062:							
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
5067:							
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
5068:							
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5068:							
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
5070:							
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Rock outcrop.							
5071:							
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5072:							
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Rock outcrop.							
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	48	40	Rocky Mountain
	Rocky Mountain Douglas-fir	70	771	50	49	90	Douglas-fir
Hardesty	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	90	600	100	85	40	
5073:							
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Rock outcrop.							
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	48	40	Rocky Mountain
	Rocky Mountain Douglas-fir	70	771	50	49	90	Douglas-fir
5074:							
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Rock outcrop.							
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	52	600	100	22	60	Rocky Mountain
	Rocky Mountain Douglas-fir	46	771	50	32	90	Douglas-fir
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	48	40	Rocky Mountain
	Rocky Mountain Douglas-fir	70	771	50	49	90	Douglas-fir
5080:							
Vaywood	Engelmann spruce	---	---	---	---	---	Rocky Mountain
	Rocky Mountain Douglas-fir	---	---	---	---	---	Douglas-fir, subalpine fir, western larch
	Subalpine fir	90	412	100	91	90	
	Western larch	70	265	50	101	70	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5080:							
Vay	Engelmann spruce	---	---	---	---	---	Rocky Mountain Douglas-fir, subalpine fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Subalpine fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Brickel	Grand fir	---	---	---	---	---	Rocky Mountain Douglas-fir, subalpine fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Subalpine fir	70	412	100	63	110	
	Western larch	---	---	---	---	---	
Rock outcrop.							
5081:							
Vaywood	Engelmann spruce	---	---	---	---	---	Rocky Mountain Douglas-fir, subalpine fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Subalpine fir	90	412	100	91	90	
	Western larch	70	265	50	101	70	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Vay	Engelmann spruce	---	---	---	---	---	Rocky Mountain Douglas-fir, subalpine fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Subalpine fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Brickel	Grand fir	---	---	---	---	---	Rocky Mountain Douglas-fir, subalpine fir, western larch
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Subalpine fir	70	412	100	63	110	
	Western larch	---	---	---	---	---	
Rock outcrop.							
5090:							
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5090:							
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Rock outcrop.							
5091:							
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Rock outcrop.							
5092:							
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5092:							
Rock outcrop.							
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	99	520	100	124	100	Rocky Mountain
	Ponderosa pine	100	600	100	102	40	Douglas-fir
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	70	771	50	38	90	Rocky Mountain Douglas-fir
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine,
	Ponderosa pine	100	600	100	102	40	Rocky Mountain
	Rocky Mountain Douglas-fir	76	771	50	74	90	Douglas-fir, western larch
	Western larch	70	265	50	101	70	
5093:							
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	70	771	50	38	90	Rocky Mountain Douglas-fir
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	99	520	100	124	100	Rocky Mountain
	Ponderosa pine	100	600	100	102	40	Douglas-fir
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	52	600	100	22	60	Rocky Mountain
	Rocky Mountain Douglas-fir	46	771	50	32	90	Douglas-fir
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain
	Lodgepole pine	80	520	100	88	100	Douglas-fir, western larch
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain
	Rocky Mountain Douglas-fir	60	771	50	56	128	Douglas-fir, western larch
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5094:							
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	70	771	50	38	90	Rocky Mountain Douglas-fir

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5094:							
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Rock outcrop.							
5102:							
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5102:							
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5103:							
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5104:							
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5104:							
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Rock outcrop.							
5105:							
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5105:							
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5110:							
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Rock outcrop.							
5111:							
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Nakarna	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	100	990	100	142	60	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5111:							
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Rock outcrop.							
5112:							
Bouldercreek, dry	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Western larch	---	---	---	---	---	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5113:							
Bouldercreek, dry	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Western larch	---	---	---	---	---	
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5114:							
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
Bouldercreek, dry	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Western larch	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5114:							
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
5120:							
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5120:							
Nakarna	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	100	990	100	142	60	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
5121:							
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5122:							
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Brevco	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	52	600	100	22	60	
	Rocky Mountain Douglas-fir	46	771	50	32	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5122:							
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Rock outcrop.							
5123:							
Kellerbutte	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	100	600	100	76	40	
	Rocky Mountain Douglas-fir	57	771	50	88	55	
	Western larch	---	---	---	---	---	
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
Blackprince	Ponderosa pine	108	600	100	40	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	70	771	50	38	90	
Ardtoo	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	99	520	100	124	100	
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	64	771	50	68	90	
	Western larch	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5130:							
Brodeer	Grand fir	60	031	50	76	120	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	90	771	50	129	104	
	Western hemlock	100	990	100	142	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	65	570	50	127	105	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
5140:							
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Hysing, dry	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5140:							
Brodeer	Grand fir	60	031	50	76	120	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	90	771	50	129	104	
	Western hemlock	100	990	100	142	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	65	570	50	127	105	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
5141:							
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Hysing	Grand fir	90	031	50	133	96	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Western hemlock	---	---	---	---	---	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5141:							
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Brodeer	Grand fir	60	031	50	76	120	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	90	771	50	129	104	
	Western hemlock	100	990	100	142	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	65	570	50	127	105	
5142:							
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Hysing	Grand fir	90	031	50	133	96	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Western hemlock	---	---	---	---	---	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Hysing, dry	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5143:							
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Hysing, dry	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
5144:							
Jacot, dry	Grand fir	90	031	50	133	96	Ponderosa pine, Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	120	600	100	141	40	
	Rocky Mountain Douglas-fir	70	771	50	71	90	
	Western larch	70	265	50	101	70	
	Western white pine	70	265	50	55	50	
Hysing, dry	Grand fir	60	031	50	76	120	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	90	600	100	85	40	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5144:							
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Boulderjud, dry	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	80	520	100	88	100	
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Western larch	60	265	50	81	70	
Jacot	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western white pine
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Western hemlock	80	990	100	100	60	
	Western larch	60	265	50	81	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
5211:							
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Keeler, dry	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
5212:							
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Keeler	Grand fir	81	031	50	78	106	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	76	771	50	90	90	
	Western hemlock	100	990	100	149	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5212:							
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
5213:							
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Keeler, dry	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Quinnamose	Grand fir	80	031	50	114	107	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	100	600	100	102	40	
	Rocky Mountain Douglas-fir	76	771	50	74	90	
	Western larch	70	265	50	101	70	
Boulderjud	Grand fir	75	031	50	61	110	Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	60	771	50	56	128	
	Western hemlock	110	990	100	160	50	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
5310:							
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5313:							
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Clayton	Lodgepole pine	---	---	---	---	---	Ponderosa pine
	Ponderosa pine	96	600	100	95	40	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	48	40	Rocky Mountain
	Rocky Mountain Douglas-fir	70	771	50	49	90	Douglas-fir
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	106	600	100	80	40	Douglas-fir,
	Rocky Mountain Douglas-fir	72	771	50	76	120	western larch
	Western larch	---	---	---	---	---	
Rock outcrop.							
5314:							
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Lenz	Ponderosa pine	81	600	100	40	40	Ponderosa pine
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Rock outcrop.							
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine,
	Ponderosa pine	91	600	100	48	40	Rocky Mountain
	Rocky Mountain Douglas-fir	70	771	50	49	90	Douglas-fir
5321:							
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Bong, moist	Ponderosa pine	107	600	100	86	40	Ponderosa pine
Endoaquolls, deep	---	---	---	---	---	---	---

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5322:							
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Skalan	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Spokane	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Endoaquolls, deep.							
Rock outcrop.							
5412:							
Keeler	Grand fir	81	031	50	78	106	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	76	771	50	90	90	
	Western hemlock	100	990	100	149	90	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
Santa	Grand fir	111	031	50	175	83	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	111	600	100	124	40	
	Rocky Mountain Douglas-fir	72	771	50	78	84	
Kronquist.							
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
5413:							
Keeler	Grand fir	81	031	50	78	106	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	76	771	50	90	90	
	Western hemlock	100	990	100	149	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5413:							
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Bouldercreek, dry	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Western larch	---	---	---	---	---	
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	
5414:							
Keeler	Grand fir	81	031	50	78	106	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	76	771	50	90	90	
	Western hemlock	100	990	100	149	90	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Micapeak	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	91	600	100	48	40	
	Rocky Mountain Douglas-fir	70	771	50	49	90	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5414:							
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
5512:							
Santa	Grand fir	111	031	50	175	83	Douglas-fir, ponderosa pine, western larch
	Lodgepole pine	---	520	---	---	---	
	Ponderosa pine	111	600	100	124	40	
	Rocky Mountain Douglas-fir	66	771	50	69	122	
	Western larch	---	265	---	---	---	
	Western white pine	55	570	50	---	---	
Cavendish	Douglas-fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, tall lodgepole pine, western larch, western white pine
	Engelmann spruce	---	---	---	---	---	
	Grand fir	---	---	---	---	---	
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	---	---	---	---	---	
	Western larch	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Crumarine.							
Reggear	Douglas-fir	77	790	50	75	99	Douglas-fir, lodgepole pine, ponderosa pine, western larch, western white pine
	Engelmann spruce	---	412	---	---	---	
	Grand fir	78	031	50	110	108	
	Lodgepole pine	---	520	---	---	---	
	Ponderosa pine	---	600	---	---	---	
	Western larch	82	265	50	126	70	
	Western white pine	---	570	---	---	---	
Santa, dry	Ponderosa pine	111	600	100	124	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	66	771	50	69	122	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	111	031	50	175	83	
5513:							
Santa	Grand fir	111	031	50	175	83	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	111	600	100	124	40	
	Rocky Mountain Douglas-fir	72	771	50	78	84	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5513:							
Taney	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	---	---	---	---	
5602:							
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Santa	Grand fir	111	031	50	175	83	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	111	600	100	124	40	
	Rocky Mountain Douglas-fir	72	771	50	78	84	
Keeler	Grand fir	81	031	50	78	106	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	76	771	50	90	90	
	Western hemlock	100	990	100	149	90	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Lakestarr, dry	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Fluvaquents, frigid.							
Lovell.							
5603:							
Lakestarr	Grand fir	70	031	50	95	113	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western hemlock	60	990	100	56	70	
	Western larch	---	---	---	---	---	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Santa	Grand fir	111	031	50	175	83	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	111	600	100	124	40	
	Rocky Mountain Douglas-fir	72	771	50	78	84	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
5603:							
Keeler	Grand fir	81	031	50	78	106	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	110	600	100	122	40	
	Rocky Mountain Douglas-fir	76	771	50	90	90	
	Western hemlock	100	990	100	149	90	
Kruse	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	106	600	100	80	40	
	Rocky Mountain Douglas-fir	72	771	50	76	120	
	Western larch	---	---	---	---	---	
Bouldercreek	Grand fir	80	031	50	114	107	Rocky Mountain Douglas-fir, western larch, western redcedar, western white pine
	Rocky Mountain Douglas-fir	69	771	50	104	90	
	Western hemlock	100	990	100	142	60	
	Western larch	65	265	50	91	70	
	Western redcedar	---	---	---	---	---	
	Western white pine	---	---	---	---	---	
Lakestarr, dry	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Taney	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	---	---	---	---	
6010:							
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Carlinton, dry	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	---	---	---	---	
Santa	Grand fir	111	031	50	175	83	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	111	600	100	124	40	
	Rocky Mountain Douglas-fir	72	771	50	78	84	
Lovell.							
Aquepts, frigid.							
6011:							
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Carlinton, dry	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
6011:							
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Lovell.							
Endoaquolls.							
6012:							
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Carlinton, dry	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	---	---	---	---	
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Taney	Ponderosa pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	---	---	---	---	
Lovell.							
Santa	Grand fir	111	031	50	175	83	Ponderosa pine, Rocky Mountain Douglas-fir
	Lodgepole pine	---	---	---	---	---	
	Ponderosa pine	111	600	100	124	40	
	Rocky Mountain Douglas-fir	72	771	50	78	84	
6040:							
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Caldwell.							
6041:							
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Caldwell.							
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Endoaquolls.							
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
6042:							
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Gibbs	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Caldwell.							
6043:							
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Caldwell.							
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
6045:							
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Freeman	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Caldwell.							
6061:							
Naff.							
Staley.							
Thatuna.							
Broadax.							
Garfield.							
Caldwell.							
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
6080:							
Nez Perce	Ponderosa pine	85	---	---	77	40	Ponderosa pine
Brincken, moist	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Uhlig	Ponderosa pine	85	600	100	77	40	Ponderosa pine
6140:							
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Gibbs	Ponderosa pine	60	600	100	46	55	Ponderosa pine
6141:							
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Cald.							
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Latah.							
6200:							
Morical.							
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Reardan.							
Swakane	Ponderosa pine	60	600	100	46	55	Ponderosa pine
Athena.							
6201:							
Morical.							
Athena.							
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Glenrose	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Kramerhill	Ponderosa pine	80	600	100	69	40	Ponderosa pine

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7090:							
Urban land.							
Lenz, disturbed	Ponderosa pine	---	---	---	---	---	---
Spokane, disturbed	Ponderosa pine	---	---	---	---	---	---
Swakane, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							
7091:							
Urban land.							
Lenz, disturbed	Ponderosa pine	---	---	---	---	---	---
Spokane, disturbed	Ponderosa pine	---	---	---	---	---	---
Swakane, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							
7103:							
Xerolls, warm, mass wasted	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Bobbitt	Ponderosa pine	88	600	100	25	40	Ponderosa pine
Brincken, moist, mass wasted	Ponderosa pine	---	---	---	---	---	Ponderosa pine
Dearyton	Ponderosa pine	90	600	100	57	40	Ponderosa pine
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Speigle, mass wasted	Ponderosa pine	67	600	100	30	50	Ponderosa pine
Rock outcrop.							
7104:							
Xerolls, cool, mass wasted	Ponderosa pine	---	---	---	---	---	Ponderosa pine,
	Rocky Mountain Douglas fir	---	---	---	---	---	Rocky Mountain Douglas-fir,
	Western larch	---	---	---	---	---	western larch
Fan Lake	Grand fir	70	031	50	95	113	Ponderosa pine,
	Lodgepole pine	---	---	---	---	---	Rocky Mountain
	Ponderosa pine	---	---	---	---	---	Douglas-fir,
	Rocky Mountain Douglas-fir	60	771	50	56	128	western larch
	Western larch	70	265	50	101	70	
Klickson, mass wasted	Ponderosa pine	92	600	100	81	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	61	771	50	58	127	Rocky Mountain Douglas fir,
	Western larch	80	265	50	122	70	western larch

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7104:							
Lakespring	Ponderosa pine	65	600	100	50	50	Ponderosa pine
Green Bluff	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	71	771	50	34	90	
	Western larch	60	265	50	81	70	
Blinn, stony surface	Grand fir	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Ponderosa pine	---	---	---	---	---	
	Rocky Mountain Douglas-fir	---	---	---	---	---	
	Western larch	---	---	---	---	---	
Elmira	Lodgepole pine	---	---	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir
	Ponderosa pine	81	600	100	29	40	
	Rocky Mountain Douglas-fir	50	771	50	35	138	
	Western larch	---	---	---	---	---	
Kronquist.							
Rock outcrop.							
7105:							
Urban land, gravelly substratum.							
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
7106:							
Urban land, gravelly substratum.							
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
7107:							
Urban land, basalt bedrock substratum.							
Northstar, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							
7110:							
Urban land.							
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Bong, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Garrison, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7110:							
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
7111:							
Urban land.							
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Bong, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Garrison, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
7112:							
Urban land.							
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Bong, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Garrison, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
7115:							
Urban land.							
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
7116:							
Urban land.							
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7116:							
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
7117:							
Urban land.							
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
7120:							
Urban land.							
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
7121:							
Urban land.							
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
Hagen, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
7122:							
Urban land.							
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Bong, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
Lakespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7123:							
Urban land.							
Marble, disturbed-------	Ponderosa pine------	---	---	---	---	---	---
Lakespring, disturbed---	Ponderosa pine------	---	---	---	---	---	---
Rock outcrop.							
Rubble land.							
Speigle, disturbed------	Ponderosa pine------	---	---	---	---	---	---
7130:							
Urban land.							
Northstar, disturbed----	Ponderosa pine------	---	---	---	---	---	---
Rock outcrop.							
Rockly, disturbed.							
Springdale, disturbed---	Ponderosa pine------	---	---	---	---	---	---
Lakespring, disturbed---	Ponderosa pine------	---	---	---	---	---	---
7131:							
Urban land.							
Northstar, disturbed----	Ponderosa pine------	---	---	---	---	---	---
Rock outcrop.							
Rockly, disturbed.							
Lakespring, disturbed---	Ponderosa pine------	---	---	---	---	---	---
Springdale, disturbed---	Ponderosa pine------	---	---	---	---	---	---
7132:							
Urban land.							
Northstar, disturbed----	Ponderosa pine------	---	---	---	---	---	---
Rock outcrop.							
Rockly, disturbed.							
Seaboldt, disturbed-----	Ponderosa pine------	---	---	---	---	---	---
Springdale, disturbed---	Ponderosa pine------	---	---	---	---	---	---
7134:							
Urban land.							
Northstar, disturbed----	Ponderosa pine------	---	---	---	---	---	---
Rock outcrop.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7134:							
Rockly, disturbed.							
Speigle, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
Lakespring, disturbed	Ponderosa pine	---	---	---	---	---	---
7140:							
Urban land.							
Uhlig, disturbed	Ponderosa pine	---	---	---	---	---	---
Seaboldt, warm, disturbed	Ponderosa pine	---	---	---	---	---	---
Brincken, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Nez Perce, disturbed	Ponderosa pine	---	---	---	---	---	---
7150:							
Urban land.							
Seaboldt, disturbed	Ponderosa pine	---	---	---	---	---	---
Brincken, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Uhlig, disturbed	Ponderosa pine	---	---	---	---	---	---
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
7151:							
Urban land.							
Seaboldt, disturbed	Ponderosa pine	---	---	---	---	---	---
Brincken, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Uhlig, disturbed	Ponderosa pine	---	---	---	---	---	---
7152:							
Urban land.							
Seaboldt, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							
Lakespring, disturbed	Ponderosa pine	---	---	---	---	---	---

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7152:							
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed, stony surface	Ponderosa pine	---	---	---	---	---	---
7163:							
Urban land.							
Spens, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
7170:							
Urban land.							
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
7171:							
Urban land.							
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Brincken, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Opportunity, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
7172:							
Urban land.							
Springdale, disturbed	Ponderosa pine	---	---	---	---	---	---
Marblespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Spens, disturbed	Ponderosa pine	---	---	---	---	---	---
7177:							
Urban land.							
Seaboldt, warm, disturbed	Ponderosa pine	---	---	---	---	---	---
Brincken, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Nez Perce, disturbed	Ponderosa pine	---	---	---	---	---	---

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7177:							
Uhlig, disturbed	Ponderosa pine	---	---	---	---	---	---
Stutler, disturbed	Ponderosa pine	---	---	---	---	---	---
7178:							
Urban land.							
Seaboldt, warm, disturbed	Ponderosa pine	---	---	---	---	---	---
Brincken, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Nez Perce, disturbed	Ponderosa pine	---	---	---	---	---	---
Uhlig, disturbed	Ponderosa pine	---	---	---	---	---	---
Stutler, disturbed	Ponderosa pine	---	---	---	---	---	---
7179:							
Urban land.							
Seaboldt, warm, disturbed	Ponderosa pine	---	---	---	---	---	---
Brincken, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Rockly, disturbed	---	---	---	---	---	---	---
Rock outcrop.							
7180:							
Urban land.							
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Bong, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
7181:							
Urban land.							
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Bong, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Hardesty, disturbed	Lodgepole pine	---	---	---	---	---	---
	Ponderosa pine	---	---	---	---	---	
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
7182:							
Urban land.							
Phoebe, disturbed	Ponderosa pine	---	---	---	---	---	---
Bong, moist, disturbed	Ponderosa pine	---	---	---	---	---	---
Lakespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
7190:							
Urban land.							
Lakespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Northstar, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							
7191:							
Urban land.							
Lakespring, disturbed	Ponderosa pine	---	---	---	---	---	---
Marble, disturbed	Ponderosa pine	---	---	---	---	---	---
Northstar, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							
7197:							
Urban land.							
Spokane, disturbed	Ponderosa pine	---	---	---	---	---	---
Lenz, disturbed	Ponderosa pine	---	---	---	---	---	---
Rock outcrop.							
Swakane, disturbed	Ponderosa pine	---	---	---	---	---	---
9300:							
Taney	Ponderosa pine	93	600	100	90	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	77	771	50	96	113	
Carlinton, dry	Ponderosa pine	116	600	100	134	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	771	---	---	---	
Latahco.							
Setters	Ponderosa pine	86	600	100	78	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	771	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9300:							
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
9301:							
Taney	Ponderosa pine	93	600	100	90	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	77	771	50	96	113	Rocky Mountain Douglas-fir
Carlinton, dry	Ponderosa pine	116	600	100	134	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas-fir
Benewah	Ponderosa pine	105	600	100	112	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	80	771	50	103	111	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	western larch
	Western larch	71	265	50	103	70	
	Grand fir	---	031	---	---	---	
Setters	Ponderosa pine	86	600	100	78	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas-fir
Latahco.							
9330:							
Carlinton	Ponderosa pine	105	600	100	112	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	75	771	50	91	115	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	western larch
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
Carlinton, dry	Ponderosa pine	116	600	100	134	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas-fir
Lovell.							
Taney	Ponderosa pine	93	600	100	90	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	77	771	50	96	113	Rocky Mountain Douglas-fir
Benewah	Ponderosa pine	105	600	100	112	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	80	771	50	103	111	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	western larch
	Western larch	71	265	50	103	70	
	Grand fir	---	031	---	---	---	
9335:							
Carlinton, dry	Ponderosa pine	116	600	100	134	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas-fir

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9335:							
Carlinton	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
Taney	Ponderosa pine	93	600	100	90	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	77	771	50	96	113	
Benewah	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Lodgepole pine	---	520	---	---	---	
	Western larch	71	265	50	103	70	
	Grand fir	---	031	---	---	---	
Lovell.							
Santa	Ponderosa pine	111	600	100	124	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	72	771	50	78	84	
	Lodgepole pine	---	---	---	---	---	
	Grand fir	111	031	50	175	83	
9336:							
Carlinton, dry	Ponderosa pine	116	600	100	134	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	771	---	---	---	
Taney	Ponderosa pine	93	600	100	90	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	77	771	50	96	113	
Carlinton	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	75	771	50	91	115	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
Benewah	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Lodgepole pine	---	520	---	---	---	
	Western larch	71	265	50	103	70	
	Grand fir	---	031	---	---	---	
Santa	Ponderosa pine	111	600	100	124	40	Ponderosa pine, Rocky Mountain Douglas fir, western larch
	Rocky Mountain Douglas-fir	72	771	50	78	84	
	Lodgepole pine	---	---	---	---	---	
	Grand fir	111	031	50	175	83	
Latahco.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9340:							
Arson	Ponderosa pine	---	600	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	76	771	50	93	114	
	Lodgepole pine	---	520	---	---	---	
	Western larch	85	265	50	132	70	
	Grand fir	96	031	50	145	92	
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	74	771	50	88	116	
	Lodgepole pine	---	520	---	---	---	
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	72	771	50	83	117	
Bechtel	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas-fir, lodgepole pine, western larch
	Rocky Mountain Douglas-fir	82	771	50	108	109	
	Lodgepole pine	---	520	---	---	---	
	Western larch	77	265	50	116	70	
	Grand fir	86	031	50	125	100	
	Western white pine	---	570	---	---	---	
Sinkler	Ponderosa pine	75	600	100	62	50	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	67	771	50	72	121	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
9341:							
Sinkler	Ponderosa pine	75	600	100	62	50	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	67	771	50	72	121	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
Arson	Ponderosa pine	---	600	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	76	771	50	93	114	
	Lodgepole pine	---	520	---	---	---	
	Western larch	85	265	50	132	70	
	Grand fir	96	031	50	145	92	
Benewah	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Lodgepole pine	---	520	---	---	---	
	Western larch	71	265	50	103	70	
	Grand fir	---	031	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9341:							
Sharptop	Ponderosa pine	---	600	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, lodgepole pine, western larch
	Rocky Mountain Douglas-fir	70	771	50	79	119	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
Bechtel	Ponderosa pine	120	600	100	141	40	Ponderosa pine, Rocky Mountain Douglas-fir, lodgepole pine, western larch
	Rocky Mountain Douglas-fir	82	771	50	108	109	
	Lodgepole pine	---	520	---	---	---	
	Western larch	77	265	50	116	70	
	Grand fir	86	031	50	125	100	
	Western white pine	---	570	---	---	---	
Grangemont, warm	Rocky Mountain Douglas-fir	70	771	50	79	119	Rocky Mountain Douglas-fir, western larch, grand fir, western white pine, western red cedar
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	83	031	50	120	104	
	Western white pine	---	570	---	---	---	
	Western red cedar	---	990	---	---	---	
9342:							
Sinkler, dry	Ponderosa pine	106	600	100	114	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	---	771	---	---	---	
Arson, dry	Ponderosa pine	89	600	100	83	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	75	771	50	91	115	
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	72	771	50	83	117	
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas fir	76	771	50	93	114	
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Sinkler	Ponderosa pine	75	600	100	62	50	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	67	771	50	72	121	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
9350:							
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Latahco.							
Cald.							

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9350:							
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Taney	Ponderosa pine	93	600	100	90	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	77	771	50	96	113	
9355:							
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Latahco.							
Cald.							
Garfield.							
9356:							
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Garfield.							
Cald.							
9363:							
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Latahco.							
Cald.							
Garfield.							
9364:							
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Latahco.							
Cald.							
Taney	Ponderosa pine	93	600	100	90	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	77	771	50	96	113	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9367:							
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
Driscoll	Ponderosa pine	80	600	100	69	40	Ponderosa pine
Garfield.							
Southwick	Ponderosa pine	85	600	100	77	40	Ponderosa pine
Cald.							
9610:							
Schumacher.							
Tekoa.							
Libertybutte.							
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
Larkin	Ponderosa pine	90	600	100	85	40	Ponderosa pine
9611:							
Schumacher.							
Tekoa.							
Libertybutte.							
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Arson, dry	Ponderosa pine	89	600	100	83	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	75	771	50	91	115	Rocky Mountain Douglas-fir
9612:							
Libertybutte.							
Tekoa.							
Schumacher.							
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
9613:							
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	72	771	50	83	117	Rocky Mountain Douglas-fir

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9613:							
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	81	118	Rocky Mountain Douglas-fir
Arson, dry	Ponderosa pine	89	600	100	83	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	75	771	50	91	115	Rocky Mountain Douglas-fir
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
9614:							
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	72	771	50	83	117	Rocky Mountain Douglas-fir
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	81	118	Rocky Mountain Douglas-fir
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
Pinecreek	Ponderosa pine	103	600	100	108	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	81	118	Rocky Mountain Douglas-fir
9617:							
Tekoa.							
Schumacher.							
Libertybutte.							
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Arson, dry	Ponderosa pine	89	600	100	83	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	75	771	50	91	115	Rocky Mountain Douglas-fir
9701:							
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	74	771	50	88	116	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	western larch
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9701:							
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	81	118	Rocky Mountain Douglas-fir
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	72	771	50	83	117	Rocky Mountain Douglas-fir
Huckle, dry	Ponderosa pine	---	600	---	---	---	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas fir,
	Lodgepole pine	---	520	---	---	---	lodgepole pine,
	Western larch	---	265	---	---	---	western larch,
	Grand fir	---	031	---	---	---	western white pine
	Western white pine	---	570	---	---	---	
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
9703:							
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine,
	Rocky Mountain Douglas fir	72	771	50	83	117	Rocky Mountain Douglas-fir
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	74	771	50	88	116	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	western larch
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	81	118	Rocky Mountain Douglas-fir
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
Huckle, dry	Ponderosa pine	---	600	---	---	---	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas fir,
	Lodgepole pine	---	520	---	---	---	lodgepole pine,
	Western larch	---	265	---	---	---	western larch,
	Grand fir	---	031	---	---	---	western white pine
	Western white pine	---	570	---	---	---	
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
9704:							
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine,
	Rocky Mountain Douglas fir	72	771	50	83	117	Rocky Mountain Douglas-fir
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	74	771	50	88	116	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	western larch
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity					Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9704:							
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine,
	Rocky Mountain Douglas-fir	71	771	50	81	118	Rocky Mountain Douglas-fir
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
Arson, dry	Ponderosa pine	89	600	100	83	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	75	771	50	91	115	Rocky Mountain Douglas-fir
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
9706:							
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	74	771	50	88	116	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	western larch
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine,
	Rocky Mountain Douglas-fir	72	771	50	83	117	Rocky Mountain Douglas-fir
Huckle	Rocky Mountain Douglas-fir	87	771	50	121	106	Rocky Mountain Douglas fir,
	Lodgepole pine	---	520	---	---	---	western larch,
	Western larch	74	265	50	109	70	grand fir,
	Grand fir	88	031	50	129	98	western white
	Western white pine	---	570	---	---	---	pine, western red
	Western red cedar	---	990	---	---	---	cedar
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine,
	Rocky Mountain Douglas fir	76	771	50	93	114	Rocky Mountain Douglas-fir
Saint Maries, dry	Ponderosa pine	---	600	---	---	---	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas-fir,
	Lodgepole pine	---	520	---	---	---	lodgepole pine,
	Western larch	---	265	---	---	---	western larch,
	Grand fir	---	031	---	---	---	western white pine
	Western white pine	---	570	---	---	---	
9707:							
Huckle, dry	Ponderosa pine	---	600	---	---	---	Ponderosa pine,
	Rocky Mountain Douglas-fir	---	771	---	---	---	Rocky Mountain Douglas fir,
	Lodgepole pine	---	520	---	---	---	lodgepole pine,
	Western larch	---	265	---	---	---	western larch,
	Grand fir	---	031	---	---	---	western white pine
	Western white pine	---	570	---	---	---	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9707:							
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	74	771	50	88	116	
	Lodgepole pine	---	520	---	---	---	
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
Ahrs	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas-fir, lodgepole pine, western larch, western white pine
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Lodgepole pine	---	520	---	---	---	
	Western larch	64	265	50	89	70	
	Grand fir	81	031	50	116	106	
	Western white pine	---	570	---	---	---	
Saint Maries, dry	Ponderosa pine	---	600	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, lodgepole pine, western larch, western white pine
	Rocky Mountain Douglas-fir	---	771	---	---	---	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
	Western white pine	---	570	---	---	---	
Rasser	Ponderosa pine	86	600	100	78	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	63	771	50	63	125	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	105	031	50	163	86	
Honeyjones, warm	Rocky Mountain Douglas fir	72	771	50	83	117	Rocky Mountain Douglas-fir, western larch, grand fir, western white pine, western redcedar
	Lodgepole pine	---	520	---	---	---	
	Western larch	61	265	50	83	70	
	Grand fir	84	031	50	122	103	
	Western white pine	---	570	---	---	---	
	Western red cedar	---	990	---	---	---	
9710:							
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas fir	76	771	50	93	114	
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	74	771	50	88	116	
	Lodgepole pine	---	520	---	---	---	
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	72	771	50	83	117	
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9710:							
Arson	Ponderosa pine	---	600	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	76	771	50	93	114	
	Lodgepole pine	---	520	---	---	---	
	Western larch	85	265	50	132	70	
	Grand fir	96	031	50	145	92	
Tekoa.							
9711:							
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas fir	76	771	50	93	114	
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	74	771	50	88	116	
	Lodgepole pine	---	520	---	---	---	
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Arson	Ponderosa pine	---	600	---	---	---	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	76	771	50	93	114	
	Lodgepole pine	---	520	---	---	---	
	Western larch	85	265	50	132	70	
	Grand fir	96	031	50	145	92	
Huckle, dry	Ponderosa pine	---	600	---	---	---	Ponderosa pine, Rocky Mountain Douglas fir, lodgepole pine, western larch, western white pine
	Rocky Mountain Douglas-fir	---	771	---	---	---	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	---	031	---	---	---	
	Western white pine	---	570	---	---	---	
Tekoa.							
9712:							
McCrosket	Ponderosa pine	97	600	100	97	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas fir	76	771	50	93	114	
Tekoa.							
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	74	771	50	88	116	
	Lodgepole pine	---	520	---	---	---	
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9712:							
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Rasser	Ponderosa pine	86	600	100	78	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	63	771	50	63	125	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	105	031	50	163	86	
9735:							
Lotuspoint, stony surface	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Pinecreek	Ponderosa pine	103	600	100	108	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Ardenvoir	Ponderosa pine	110	600	100	122	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	74	771	50	88	116	
	Lodgepole pine	---	520	---	---	---	
	Western larch	65	265	50	91	70	
	Grand fir	72	031	50	98	112	
Rasser	Ponderosa pine	86	600	100	78	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	63	771	50	63	125	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	105	031	50	163	86	
Rock outcrop.							
9770:							
Pinecreek	Ponderosa pine	103	600	100	108	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Ahrs	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas-fir, lodgepole pine, western larch, western white pine
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Lodgepole pine	---	520	---	---	---	
	Western larch	64	265	50	89	70	
	Grand fir	81	031	50	116	106	
	Western white pine	---	570	---	---	---	
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9770:							
Rasser	Ponderosa pine	86	600	100	78	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	63	771	50	63	125	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	105	031	50	163	86	
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Rock outcrop.							
9775:							
Pinecreek, moist	Ponderosa pine	113	600	100	128	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	84	771	50	113	108	
	Lodgepole pine	---	520	---	---	---	
	Western larch	66	265	50	93	70	
	Grand fir	90	031	50	133	96	
Ahrs	Ponderosa pine	105	600	100	112	40	Ponderosa pine, Rocky Mountain Douglas-fir, lodgepole pine, western larch, western white pine
	Rocky Mountain Douglas-fir	80	771	50	103	111	
	Lodgepole pine	---	520	---	---	---	
	Western larch	64	265	50	89	70	
	Grand fir	81	031	50	116	106	
	Western white pine	---	570	---	---	---	
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Rasser	Ponderosa pine	86	600	100	78	40	Ponderosa pine, Rocky Mountain Douglas-fir, western larch
	Rocky Mountain Douglas-fir	63	771	50	63	125	
	Lodgepole pine	---	520	---	---	---	
	Western larch	---	265	---	---	---	
	Grand fir	105	031	50	163	86	
Honeyjones, warm	Rocky Mountain Douglas fir	72	771	50	83	117	Rocky Mountain Douglas-fir, western larch, grand fir, western white pine, western redcedar
	Lodgepole pine	---	520	---	---	---	
	Western larch	61	265	50	83	70	
	Grand fir	84	031	50	122	103	
	Western white pine	---	570	---	---	---	
	Western red cedar	---	990	---	---	---	
Rock outcrop.							
9776:							
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Lotuspoint, stony surface	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	

Table 10.--Forest Productivity--Continued

Map symbol and soil name	Potential productivity						Trees to manage
	Common trees	Site index average age	Site index curve number*	Site index base age	Volume of wood fiber (CMAI)	CMAI age	
		Ft		*Yrs*	*Cu ft/ac/yr*	*Yrs*	
9776:							
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	72	771	50	83	117	
Rock outcrop.							
9778:							
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Lotuspoint	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	72	771	50	83	117	
Pinecreek	Ponderosa pine	103	600	100	108	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Rock outcrop.							
9782:							
Ardenvoir, dry	Ponderosa pine	84	600	100	75	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	72	771	50	83	117	
Cassyhill	Ponderosa pine	64	600	100	50	50	Ponderosa pine
Lotuspoint, stony surface	Ponderosa pine	69	600	100	54	50	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	71	771	50	81	118	
Arson, dry	Ponderosa pine	89	600	100	83	40	Ponderosa pine, Rocky Mountain Douglas-fir
	Rocky Mountain Douglas-fir	75	771	50	91	115	
Rock outcrop.							

*The site index curve numbers shown in the table correlate to the following references (see "References" section for complete citation)--Cochran, P.H., 1979 (031); Schmidt and others, 1976 (265); Alexander, 1967 (412); Alexander, 1966 (520); Haig, 1932 (570); Meyer, 1961 (600); Monserud, 1985 (771); McArdle and others, 1961 (790), and Barnes, 1962 (990).

Table 11.--Hydric Soil Rating

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1001:								
Bridgeson ashy silt loam, 0 to 3 percent slopes	Bridgeson	80	Yes	Drainageways	2	Yes	No	No
	Hoodoo	10	Yes	Flood plains	2, 4	Yes	Yes	No
	Wolfeson	5	No	Relict glacial lake terraces	---	---	---	---
	Pywell	3	Yes	Drainageways, flood plains	1, 3	No	No	Yes
	Endoaquolls	2	Yes	Drainageways, stream terraces, flood plains	2, 4	Yes	Yes	No
1010:								
Caldwell-Thatuna complex, 0 to 8 percent slopes	Caldwell	65	No	Drainageways	---	---	---	---
	Thatuna	15	No	Loess hills	---	---	---	---
	Cald	10	Yes	Drainageways	2	Yes	No	No
	Latah	5	No	Low stream terraces, drainageways	---	---	---	---
	Mondovi	3	No	Drainageways	---	---	---	---
	Endoaquolls	2	Yes	Drainageways, flood plains	2, 4	Yes	Yes	No
1015:								
Caldwell silt loam, 0 to 3 percent slopes	Caldwell	75	No	Drainageways	---	---	---	---
	Cald	10	Yes	Drainageways	2	Yes	No	No
	Endoaquolls	5	Yes	Drainageways, flood plains	2, 4	Yes	Yes	No
	Mondovi	5	No	Drainageways	---	---	---	---
	Narcisse	5	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1020: Cocolalla ashy silt loam, 0 to 3 percent slopes	Cocolalla	80	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Hardesty	10	No	Depressions, drainageways, stream terraces	---	---	---	---
	Northstar	3	No	Basalt plateaus	---	---	---	---
	Rockly	3	No	Basalt plateaus	---	---	---	---
	Saltese	2	Yes	Flood plains, depressions, drainageways	1, 3	No	No	Yes
	Water	2	No	---	---	---	---	---
1021: Cocolalla-Hardesty complex, 0 to 3 percent slopes	Cocolalla	50	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Hardesty	40	No	Depressions, drainageways, stream terraces	---	---	---	---
	Rockly	4	No	Basalt plateaus	---	---	---	---
	Saltese	3	Yes	Flood plains, depressions, drainageways	1, 3	No	No	Yes
	Northstar	1	No	Basalt plateaus	---	---	---	---
	Speigle	1	No	Escarpments	---	---	---	---
	Water	1	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1030:								
Emdent ashy silt loam, 0 to 3 percent slopes	Emdent	80	Yes	Drainageways, flood plains, depressions	2, 3, 4	Yes	Yes	Yes
	Hardesty	10	No	Depressions, drainageways, stream terraces	---	---	---	---
	Cocolalla	5	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rockly	3	No	Basalt plateaus	---	---	---	---
	Saltese	2	Yes	Flood plains, depressions, drainageways	1, 3	No	No	Yes
1040:								
Hardesty ashy silt loam, 0 to 3 percent slopes	Hardesty	75	No	Depressions, drainageways, stream terraces	---	---	---	---
	Narcisse	10	No	Drainageways	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Peone	5	Yes	Depressions, drainageways, flood plains	2	Yes	No	No
	Cocolalla	3	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Northstar	2	No	Basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1050:								
Hoodoo-Kronquist complex, 0 to 3 percent slopes	Hoodoo	45	Yes	Flood plains	2, 4	Yes	Yes	No
	Kronquist	40	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Colburn	10	No	Drainageways	---	---	---	---
	Pywell	5	Yes	Drainageways, flood plains	1, 3	No	No	Yes
1070:								
Mondovi silt loam, 0 to 8 percent slopes	Mondovi	75	No	Drainageways	---	---	---	---
	Caldwell	10	No	Drainageways	---	---	---	---
	Athena	5	No	Loess hills	---	---	---	---
	Endoaquolls	5	Yes	Drainageways, flood plains	2, 4	Yes	Yes	No
	Narcisse	5	No	Drainageways	---	---	---	---
1080:								
Narcisse silt loam, 0 to 3 percent slopes	Narcisse	80	No	Drainageways	---	---	---	---
	Hardesty	10	No	Depressions, drainageways, stream terraces	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Kronquist	5	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1081:								
Narcisse silt loam, 3 to 8 percent slopes	Narcisse	80	No	Drainageways	---	---	---	---
	Hardesty	10	No	Depressions, drainageways, stream terraces	---	---	---	---
	Kronquist	5	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Opportunity	5	No	Outwash plains	---	---	---	---
1090:								
Peone-Saltese complex, 0 to 3 percent slopes	Peone	65	Yes	Depressions, drainageways, flood plains	2	Yes	No	No
	Saltese	20	Yes	Drainageways, flood plains	1, 3	No	No	Yes
	Endoaquolls	5	Yes	Drainageways, flood plains	2, 4	Yes	Yes	No
	Kronquist	5	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Peone, drained	4	Yes	Depressions, drainageways, flood plains	2	Yes	No	No
	Water	1	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1091:								
Peone ashy silt loam, drained, 0 to 3 percent slopes	Peone, drained	70	Yes	Depressions, drainageways, flood plains	2	Yes	No	No
	Hardesty	10	No	Depressions, drainageways, stream terraces	---	---	---	---
	Kronquist	10	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Cedonia	5	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Endoaquolls	5	Yes	Drainageways, flood plains	2, 4	Yes	Yes	No
1092:								
Hoodoo ashy silt loam, 0 to 3 percent slopes	Hoodoo	70	Yes	Flood plains	2, 4	Yes	Yes	No
	Bellslake	14	Yes	Low stream terraces, flood plains	2, 3	Yes	No	Yes
	Kronquist	10	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Pywell	5	Yes	Drainageways, flood plains	1, 3	No	No	Yes
	Water	1	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1120:								
Lovell ashy silt loam, 0 to 3 percent slopes	Lovell	80	No	Drainageways	---	---	---	---
	Colburn	10	No	Drainageways	---	---	---	---
	Santa	5	No	Loess hills	---	---	---	---
	Freeman	3	No	Loess hills	---	---	---	---
	Kronquist	2	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
1130:								
Colburn ashy loam, 0 to 3 percent slopes	Colburn	80	No	Drainageways	---	---	---	---
	Hoodoo	10	Yes	Flood plains	2, 4	Yes	Yes	No
	Eloika	5	No	Outwash plains	---	---	---	---
	Wolfeson	5	No	Relict glacial lake terraces, outwash plains	---	---	---	---
1200:								
Endoaquolls and Fluvaquents, 0 to 3 percent slopes	Endoaquolls	40	Yes	Drainageways, stream terraces, flood plains	2, 4	Yes	Yes	No
	Fluvaquents	40	Yes	Low stream terraces, drainageways, flood plains	2, 4	Yes	Yes	No
	Hardesty	10	No	Depressions, drainageways, stream terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
1200:								
Endoaquolls and Fluvaquents, 0 to 3 percent slopes	Saltese	5	Yes	Drainageways, flood plains	1, 3	No	No	Yes
	Water	5	No	---	---	---	---	---
1203:								
Haploxerolls ashy silt loam, channeled, 0 to 8 percent slopes	Haploxerolls, channeled	75	No	Stream terraces	---	---	---	---
	Mondovi	10	No	Drainageways	---	---	---	---
	Endoaquolls	5	Yes	Drainageways, stream terraces, flood plains	2, 4	Yes	Yes	No
	Riverwash	5	No	---	---	---	---	---
	Water	5	No	---	---	---	---	---
1300:								
Aquepts ashy loam, frigid, 0 to 3 percent slopes	Aquepts, frigid	80	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Lovell	5	No	Drainageways	---	---	---	---
	Colburn	3	No	Drainageways	---	---	---	---
	Freeman	3	No	Loess hills	---	---	---	---
	Kaniksu	3	No	Outwash plains	---	---	---	---
	Kronquist	2	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Pywell	2	Yes	Drainageways, flood plains	1, 3	No	No	Yes
	Water	2	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2040:								
Klickson gravelly ashy silt loam, mass wasted, 15 to 30 percent slopes	Klickson, mass wasted	70	No	Earthflows	---	---	---	---
	Blinn, stony surface	10	No	Basalt plateaus, basalt escarpments	---	---	---	---
	Green Bluff	5	No	Outwash plains on basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Xerolls, frigid, mass wasted	5	No	Earthflows	---	---	---	---
	Lacy	3	No	Basalt plateaus	---	---	---	---
	Speigle	2	No	Escarpments	---	---	---	---
2041:								
Klickson gravelly ashy silt loam, 30 to 60 percent slopes	Klickson	75	No	Escarpments	---	---	---	---
	Lacy	9	No	Escarpments	---	---	---	---
	Blinn, stony surface	8	No	Basalt plateaus, basalt escarpments	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Xerolls, frigid, mass wasted	3	No	Earthflows	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2042:								
Rock outcrop-Klickson-Speigle complex, 60 to 80 percent slopes	Rock outcrop	30	No	---	---	---	---	---
	Klickson	25	No	Escarpments	---	---	---	---
	Speigle	25	No	Escarpments	---	---	---	---
	Rubble land	14	No	---	---	---	---	---
	Lacy	6	No	Escarpments	---	---	---	---
2043:								
Klickson-Speigle complex, mass wasted, 15 to 30 percent slopes	Klickson, mass wasted	35	No	Earthflows	---	---	---	---
	Speigle, mass wasted	35	No	Earthflows	---	---	---	---
	Green Bluff	10	No	Outwash plains on basalt plateaus	---	---	---	---
	Klickson	5	No	Escarpments	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Spens	3	No	Outwash terraces	---	---	---	---
	Xerolls, frigid, mass wasted	3	No	Earthflows	---	---	---	---
	Fan Lake	2	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Lacy	2	No	Basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2044:								
Klickson-Speigle complex, 30 to 60 percent slopes	Klickson	40	No	Escarpments	---	---	---	---
	Speigle	40	No	Escarpments	---	---	---	---
	Green Bluff	8	No	Outwash plains on basalt plateaus	---	---	---	---
	Lacy	5	No	Escarpments	---	---	---	---
	Spens	3	No	Outwash terraces	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
	Rubble land	2	No	---	---	---	---	---
2045:								
Marble-Speigle complex, mass wasted, 8 to 30 percent slopes	Marble, mass wasted	35	No	Earthflows, outwash plains	---	---	---	---
	Speigle, mass wasted	30	No	Earthflows	---	---	---	---
	Spens	14	No	Outwash terraces	---	---	---	---
	Lakespring	11	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Klickson, mass wasted	5	No	Earthflows	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2046:								
Klickson-Speigle-Rock outcrop complex, 30 to 60 percent slopes	Klickson	35	No	Escarpments	---	---	---	---
	Speigle	35	No	Escarpments	---	---	---	---
	Rock outcrop	20	No	---	---	---	---	---
	Lacy	5	No	Escarpments	---	---	---	---
	Spens	3	No	Outwash terraces	---	---	---	---
	Rubble land	2	No	---	---	---	---	---
2050:								
Speigle cobbly ashy loam, 15 to 30 percent slopes	Speigle	70	No	Escarpments	---	---	---	---
	Spens	14	No	Outwash terraces	---	---	---	---
	Bobbitt	10	No	Basalt plateaus	---	---	---	---
	Lacy	5	No	Escarpments	---	---	---	---
	Rock outcrop	1	No	---	---	---	---	---
2051:								
Speigle cobbly ashy loam, 30 to 60 percent slopes	Speigle	70	No	Escarpments	---	---	---	---
	Spens	12	No	Outwash terraces	---	---	---	---
	Lacy	10	No	Escarpments	---	---	---	---
	Bobbitt	5	No	Escarpments	---	---	---	---
	Rubble land	2	No	---	---	---	---	---
	Rock outcrop	1	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2052:								
Brincken, moist-Speigle complex, mass wasted, 8 to 25 percent slopes	Brincken, moist, mass wasted	50	No	Earthflows, outwash terraces	---	---	---	---
	Speigle, mass wasted	20	No	Earthflows	---	---	---	---
	Gibbs	10	No	Basalt plateaus	---	---	---	---
	Lakespring	10	No	Outwash plains, outwash terraces	---	---	---	---
	Klickson, mass wasted	5	No	Earthflows	---	---	---	---
	Narcisse	3	No	Drainageways	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
2053:								
Speigle-Rock outcrop complex, 15 to 30 percent slopes	Speigle	50	No	Escarpments	---	---	---	---
	Rock outcrop	15	No	---	---	---	---	---
	Bobbitt	10	No	Escarpments	---	---	---	---
	Northstar	10	No	Basalt plateaus	---	---	---	---
	Lacy	5	No	Escarpments	---	---	---	---
	Rubble land	5	No	---	---	---	---	---
	Spens	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2054:								
Speigle-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	Speigle	40	No	Escarpments	---	---	---	---
	Rubble land	30	No	---	---	---	---	---
	Rock outcrop	15	No	---	---	---	---	---
	Klickson	5	No	Escarpments	---	---	---	---
	Lacy	5	No	Escarpments	---	---	---	---
	Spens	5	No	Outwash terraces	---	---	---	---
2070:								
Bobbitt-Lacy complex, 0 to 8 percent slopes	Bobbitt	50	No	Basalt plateaus	---	---	---	---
	Lacy	25	No	Basalt plateaus	---	---	---	---
	Gibbs	12	No	Basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Hardesty	3	No	Depressions, drainageways, stream terraces	---	---	---	---
	Lakespring	3	No	Outwash plains, outwash terraces	---	---	---	---
	Stutler	2	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2071:								
Bobbitt-Speigle complex, 8 to 25 percent slopes	Bobbitt	50	No	Basalt plateaus	---	---	---	---
	Speigle	25	No	Basalt plateaus	---	---	---	---
	Gibbs	10	No	Basalt plateaus	---	---	---	---
	Lacy	10	No	Basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
2080:								
Gibbs ashy silt loam, 0 to 8 percent slopes	Gibbs	70	No	Basalt plateaus	---	---	---	---
	Bobbitt	10	No	Basalt plateaus	---	---	---	---
	Driscoll	10	No	Loess hills	---	---	---	---
	Lacy	5	No	Basalt plateaus	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
2081:								
Gibbs ashy silt loam, 8 to 15 percent slopes	Gibbs	65	No	Basalt plateaus	---	---	---	---
	Bobbitt	10	No	Basalt plateaus	---	---	---	---
	Brincken, moist	10	No	Outwash terraces on loess hills	---	---	---	---
	Driscoll	5	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2081:								
Gibbs ashy silt loam, 8 to 15 percent slopes	Speigle	5	No	Basalt plateaus	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
	Lacy	2	No	Basalt plateaus	---	---	---	---
2085:								
Tucannon ashy silt loam, 0 to 8 percent slopes	Tucannon	75	No	Basalt plateaus	---	---	---	---
	Cheney	7	No	Outwash plains	---	---	---	---
	Cocolalla	5	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rockly	5	No	Basalt plateaus	---	---	---	---
	Uhlig, dry	5	No	Outwash terraces	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
2090:								
Rockly-Tucannon complex, 15 to 35 percent slopes	Rockly	55	No	Basalt plateaus	---	---	---	---
	Tucannon	25	No	Basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Rubble land	5	No	---	---	---	---	---
	Speigle	5	No	Escarpments	---	---	---	---
	Uhlig, dry	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
2160:								
Scoap-Rubble land-Rock outcrop complex, 30 to 90 percent slopes	Scoap	40	No	Escarpments	---	---	---	---
	Rubble land	25	No	---	---	---	---	---
	Rock outcrop	15	No	---	---	---	---	---
	Northstar	10	No	Escarpments	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---
	Wapal	5	No	Outwash terraces	---	---	---	---
3010:								
Alecanyon cobbly ashy coarse sandy loam, 15 to 40 percent slopes, very stony surface	Alecanyon, very stony surface	85	No	Outwash plains	---	---	---	---
	Cheney	10	No	Outwash plains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
3015:								
Seaboldt ashy loam, dry, 0 to 8 percent slopes	Seaboldt, dry	80	No	Outwash plains on basalt plateaus	---	---	---	---
	Cheney	6	No	Outwash plains	---	---	---	---
	Uhlig, dry	6	No	Outwash terraces	---	---	---	---
	Brincken, moist	3	No	Outwash terraces on loess hills	---	---	---	---
	Narcisse	3	No	Drainageways	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3020:								
Bong ashy sandy loam, 0 to 8 percent slopes	Bong	70	No	Outwash plains	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Phoebe, dry	10	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
	Marblespring	5	No	Outwash terraces	---	---	---	---
3022:								
Bong ashy sandy loam, moist, 0 to 8 percent slopes	Bong, moist	80	No	Outwash plains	---	---	---	---
	Phoebe	10	No	Outwash plains	---	---	---	---
	Hagen	5	No	Outwash terraces	---	---	---	---
	Marblespring	3	No	Outwash terraces	---	---	---	---
	Hardesty	2	No	Depressions, drainageways	---	---	---	---
3024:								
Phoebe-Bong, moist, complex, 0 to 8 percent slopes	Phoebe	45	No	Outwash plains	---	---	---	---
	Bong, moist	40	No	Outwash plains	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3025:								
Bong ashy sandy loam, moist, 15 to 30 percent slopes	Bong, moist	75	No	Outwash plains	---	---	---	---
	Marble	14	No	Outwash plains	---	---	---	---
	Phoebe	5	No	Outwash plains	---	---	---	---
	Spens	5	No	Outwash terraces	---	---	---	---
	Hardesty	1	No	Drainageways	---	---	---	---
3026:								
Phoebe, dry-Bong complex, 0 to 8 percent slopes	Phoebe, dry	45	No	Outwash plains	---	---	---	---
	Bong	40	No	Outwash plains	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
3030:								
Bonner ashy fine sandy loam, 0 to 8 percent slopes	Bonner	70	No	Outwash terraces	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Stien, very stony surface	10	No	Outwash plains	---	---	---	---
	Wapal	5	No	Outwash terraces	---	---	---	---
	Eloika	4	No	Outwash plains	---	---	---	---
	Colburn	1	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3031:								
Bonner-Wapal complex, 8 to 15 percent slopes	Bonner	60	No	Outwash terraces	---	---	---	---
	Wapal	20	No	Outwash terraces	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Stien, very stony surface	7	No	Outwash plains	---	---	---	---
	Eloika	3	No	Outwash plains	---	---	---	---
3039:								
Alecanyon-Rockly complex, 0 to 15 percent slopes	Alecanyon	40	No	Outwash plains	---	---	---	---
	Rockly	30	No	Basalt plateaus	---	---	---	---
	Cheney	10	No	Outwash plains	---	---	---	---
	Deno	10	No	Mounds on basalt plateaus	---	---	---	---
	Rock outcrop	7	No	---	---	---	---	---
	Fourmound	2	No	Mounds on basalt plateaus	---	---	---	---
	Cocolalla	1	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
3040:								
Cheney-Alecanyon complex, 0 to 8 percent slopes	Cheney	50	No	Outwash plains	---	---	---	---
	Alecanyon	35	No	Outwash plains	---	---	---	---
	Uhlig, dry	9	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3040:								
Cheney-Alecanyon complex, 0 to 8 percent slopes	Rock outcrop	2	No	---	---	---	---	---
	Rockly	2	No	Basalt plateaus	---	---	---	---
	Uhlig	2	No	Outwash terraces	---	---	---	---
3041:								
Alecanyon, very stony-Cheney complex, 0 to 8 percent slopes	Alecanyon, very stony surface	65	No	Outwash plains	---	---	---	---
	Cheney	20	No	Outwash plains	---	---	---	---
	Uhlig, dry	7	No	Outwash terraces	---	---	---	---
	Rockly	5	No	Basalt plateaus	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
3042:								
Alecanyon, very stony-Cheney complex, 8 to 15 percent slopes	Alecanyon, very stony surface	65	No	Outwash plains	---	---	---	---
	Cheney	25	No	Outwash plains	---	---	---	---
	Athena	4	No	Loess hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
	Tucannon	2	No	Basalt plateaus	---	---	---	---
	Uhlig, dry	2	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3044:								
Cheney ashy silt loam, 0 to 8 percent slopes	Cheney	75	No	Outwash plains	---	---	---	---
	Uhlig, dry	10	No	Outwash terraces	---	---	---	---
	Alecanyon	5	No	Outwash plains	---	---	---	---
	Cocolalla	3	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rock outcrop	3	No	---	---	---	---	---
	Seaboldt, dry	2	No	Outwash plains on basalt plateaus	---	---	---	---
	Uhlig	2	No	Outwash terraces	---	---	---	---
3045:								
Rockly-Deno complex, 0 to 15 percent slopes	Rockly	60	No	Basalt plateaus	---	---	---	---
	Deno	25	No	Mounds on basalt plateaus	---	---	---	---
	Cocolalla	5	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rock outcrop	5	No	---	---	---	---	---
	Cheney	3	No	Outwash plains	---	---	---	---
	Seaboldt, dry	2	No	Outwash plains on basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3046:								
Cheney-Seaboldt, dry, complex, 0 to 8 percent slopes	Cheney	60	No	Outwash plains	---	---	---	---
	Seaboldt, dry	25	No	Outwash plains on basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Rockly	3	No	Basalt plateaus	---	---	---	---
	Uhlig, dry	3	No	Outwash terraces	---	---	---	---
	Cocolalla	2	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Fourmound	2	No	Mounds on basalt plateaus	---	---	---	---
3047:								
Rockly-Rock outcrop-Deno complex, 0 to 15 percent slopes	Rockly	45	No	Basalt plateaus	---	---	---	---
	Rock outcrop	20	No	---	---	---	---	---
	Deno	15	No	Mounds on basalt plateaus	---	---	---	---
	Rock outcrop, cliffs	8	No	---	---	---	---	---
	Cocolalla	3	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Hardesty	3	No	Depressions, drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3047:								
Rockly-Rock outcrop-Deno complex, 0 to 15 percent slopes	Northstar	3	No	Basalt plateaus	---	---	---	---
	Speigle	3	No	Escarpments	---	---	---	---
3048:								
Rockly-Hardesty complex, 0 to 15 percent slopes	Rockly	50	No	Basalt plateaus	---	---	---	---
	Hardesty	25	No	Depressions, drainageways	---	---	---	---
	Fourmound	10	No	Mounds on basalt plateaus	---	---	---	---
	Cocolalla	5	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rock outcrop	5	No	---	---	---	---	---
	Northstar	3	No	Basalt plateaus	---	---	---	---
	Water	2	No	---	---	---	---	---
3049:								
Rockly-Rock outcrop-Cocolalla complex, 0 to 15 percent slopes	Rockly	45	No	Basalt plateaus	---	---	---	---
	Rock outcrop	20	No	---	---	---	---	---
	Cocolalla	15	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rock outcrop, cliffs	8	No	---	---	---	---	---
	Deno	4	No	Mounds on basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3049:								
Rockly-Rock outcrop-Cocolalla complex, 0 to 15 percent slopes	Northstar	3	No	Basalt plateaus	---	---	---	---
	Speigle	3	No	Escarpments	---	---	---	---
	Water	2	No	---	---	---	---	---
3054:								
Clayton ashy fine sandy loam, 0 to 8 percent slopes	Clayton	65	No	Outwash terraces	---	---	---	---
	Clayton, silty subsoil	10	No	Terraces	---	---	---	---
	Hagen	10	No	Outwash terraces	---	---	---	---
	Phoebe, dry	10	No	Outwash plains	---	---	---	---
	Marblespring	5	No	Outwash terraces	---	---	---	---
3055:								
Clayton-Hagen complex, 8 to 25 percent slopes	Clayton	55	No	Outwash terraces	---	---	---	---
	Hagen	25	No	Outwash terraces	---	---	---	---
	Clayton, silty subsoil	10	No	Terraces	---	---	---	---
	Endoaquolls	5	Yes	Drainageways, stream terraces, flood plains	2, 4	Yes	Yes	No
	Marblespring	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3056:								
Hagen ashy sandy loam, 0 to 3 percent slopes	Hagen	65	No	Outwash terraces	---	---	---	---
	Bong, moist	10	No	Outwash plains	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Clayton	5	No	Outwash terraces	---	---	---	---
	Hardesty	5	No	Depressions, drainageways, stream terraces	---	---	---	---
	Marblespring	5	No	Outwash terraces	---	---	---	---
3057:								
Hagen ashy sandy loam, 3 to 8 percent slopes	Hagen	75	No	Outwash terraces	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Depressions, drainageways, stream terraces	---	---	---	---
	Marblespring	5	No	Outwash terraces	---	---	---	---
3060:								
Dearyton ashy silt loam, 0 to 8 percent slopes	Dearyton	70	No	Hills	---	---	---	---
	Glenrose	10	No	Hills	---	---	---	---
	Kramerhill	10	No	Hills	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Skalan	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3061:								
Dearyton ashy silt loam, 8 to 15 percent slopes	Dearyton	65	No	Hills	---	---	---	---
	Glenrose	14	No	Hills	---	---	---	---
	Kramerhill	10	No	Hills	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Skalan	5	No	Hills	---	---	---	---
	Endoaquolls	1	Yes	Drainageways	2, 4	Yes	Yes	No
3062:								
Dearyton ashy silt loam, 15 to 30 percent slopes	Dearyton	65	No	Hills	---	---	---	---
	Kramerhill	10	No	Hills	---	---	---	---
	Skalan	10	No	Hills	---	---	---	---
	Spokane	10	No	Hills	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
3070:								
Eloika ashy very fine sandy loam, 0 to 8 percent slopes	Eloika	65	No	Outwash plains	---	---	---	---
	Kaniksu	10	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
	Stien, very stony surface	5	No	Outwash plains	---	---	---	---
	Torboy	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3071:								
Stien ashy silt loam, 0 to 8 percent slopes, very stony	Stien, very stony surface	70	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Wapal	10	No	Outwash terraces	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
	Torboy	5	No	Outwash terraces	---	---	---	---
3072:								
Stien ashy silt loam, 8 to 15 percent slopes, very stony	Stien, very stony surface	70	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Wapal	10	No	Outwash terraces	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
	Blackprince	2	No	Hills	---	---	---	---
3073:								
Stien, very stony-Rock outcrop complex, 15 to 30 percent slopes	Stien, very stony surface	55	No	Outwash plains	---	---	---	---
	Rock outcrop	15	No	---	---	---	---	---
	Blackprince	10	No	Hills	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Wapal	10	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3074:								
Eloika ashy very fine sandy loam, moist, 0 to 8 percent slopes	Eloika, moist	65	No	Outwash plains	---	---	---	---
	Kaniksu	10	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Bonner	4	No	Outwash terraces	---	---	---	---
	Colburn	4	No	Drainageways	---	---	---	---
	Torboy	3	No	Outwash terraces	---	---	---	---
	Fan Lake	2	No	Outwash plains	---	---	---	---
	Wolfeson	2	No	Relict glacial lake terraces, outwash plains	---	---	---	---
3080:								
Opportunity very gravelly ashy loam, 0 to 3 percent slopes	Opportunity	70	No	Outwash plains	---	---	---	---
	Bong, moist	10	No	Outwash plains	---	---	---	---
	Garrison	10	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---
3081:								
Opportunity very gravelly ashy loam, 3 to 8 percent slopes	Opportunity	70	No	Outwash plains	---	---	---	---
	Bong, moist	10	No	Outwash plains	---	---	---	---
	Garrison	10	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3082:								
Opportunity very gravelly ashy loam, 8 to 15 percent slopes	Opportunity	70	No	Outwash plains	---	---	---	---
	Bong, moist	13	No	Outwash plains	---	---	---	---
	Garrison	10	No	Outwash plains	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---
	Hardesty	2	No	Drainageways	---	---	---	---
3083:								
Garrison very gravelly ashy loam, 0 to 8 percent slopes	Garrison	80	No	Outwash plains	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
	Opportunity	5	No	Outwash plains	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---
3084:								
Garrison very gravelly ashy loam, 8 to 15 percent slopes	Garrison	80	No	Outwash plains	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Garrison, extremely stony surface	5	No	Outwash plains	---	---	---	---
	Opportunity	5	No	Outwash plains	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3085:								
Garrison very gravelly ashy loam, 15 to 30 percent slopes	Garrison	90	No	Outwash plains	---	---	---	---
	Opportunity	4	No	Outwash plains	---	---	---	---
	Springdale	4	No	Outwash terraces	---	---	---	---
	Urban land	2	No	---	---	---	---	---
3087:								
Garrison very gravelly ashy loam, 0 to 8 percent slopes, extremely stony surface	Garrison, extremely stony surface	75	No	Outwash plains	---	---	---	---
	Garrison	8	No	Outwash plains	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Opportunity	5	No	Outwash plains	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---
	Urban land	2	No	---	---	---	---	---
3090:								
Glenrose ashy silt loam, 0 to 8 percent slopes	Glenrose	60	No	Hills	---	---	---	---
	Larkin	14	No	Loess hills	---	---	---	---
	Dearyton	10	No	Hills	---	---	---	---
	Kramerhill	10	No	Hills	---	---	---	---
	Uhlig	5	No	Outwash terraces	---	---	---	---
	Endoaquolls	1	Yes	Drainageways, flood plains	2, 4	Yes	Yes	No

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3091:								
Glenrose ashy silt loam, 8 to 25 percent slopes	Glenrose	55	No	Hills	---	---	---	---
	Dearyton	10	No	Hills	---	---	---	---
	Glenrose, cobbly surface	10	No	Hills	---	---	---	---
	Kramerhill	10	No	Hills	---	---	---	---
	Kruse	5	No	Hills	---	---	---	---
	Larkin	5	No	Hills	---	---	---	---
	Spokane	5	No	Hills	---	---	---	---
3101:								
Green Bluff ashy silt loam, 0 to 8 percent slopes	Green Bluff	70	No	Outwash plains on basalt plateaus	---	---	---	---
	Blinn	14	No	Basalt plateaus, basalt escarpments	---	---	---	---
	Brincken, moist	10	No	Outwash terraces on loess hills	---	---	---	---
	Lakespring	5	No	Relict glacial lake terraces	---	---	---	---
	Hoodoo	1	Yes	Flood plains	2, 4	Yes	Yes	No

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3102:								
Green Bluff ashy silt loam, 8 to 15 percent slopes	Green Bluff	70	No	Outwash plains on basalt plateaus	---	---	---	---
	Bobbitt	10	No	Basalt plateaus	---	---	---	---
	Brincken, moist	5	No	Outwash terraces on loess hills	---	---	---	---
	Klickson	5	No	Escarpments	---	---	---	---
	Lakespring	5	No	Relict glacial lake terraces	---	---	---	---
	Hoodoo	3	Yes	Flood plains	2, 4	Yes	Yes	No
	Rock outcrop	2	No	---	---	---	---	---
3110:								
Fourmound-Stutler complex, 0 to 8 percent slopes	Fourmound	45	No	Mounds on basalt plateaus	---	---	---	---
	Stutler	40	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
	Seaboldt, warm	5	No	Outwash plains on basalt plateaus	---	---	---	---
	Rockly	3	No	Basalt plateaus	---	---	---	---
	Cocolalla	2	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3112:								
Stutler gravelly ashy loam, 0 to 15 percent slopes, extremely bouldery surface	Stutler, extremely bouldery surface	70	No	Outwash terraces, outwash plains	---	---	---	---
	Rockly	8	No	Basalt plateaus	---	---	---	---
	Northstar	7	No	Basalt plateaus	---	---	---	---
	Cocolalla	5	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rock outcrop	5	No	---	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---
3113:								
Stutler-Springdale complex, 3 to 15 percent slopes	Stutler	55	No	Outwash plains	---	---	---	---
	Springdale	30	No	Outwash terraces	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
	Northstar	5	No	Basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
3114:								
Rockly-Fourmound complex, 0 to 15 percent slopes	Rockly	55	No	Basalt plateaus	---	---	---	---
	Fourmound	25	No	Mounds on basalt plateaus	---	---	---	---
	Northstar	8	No	Basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3114:								
Rockly-Fourmound complex, 0 to 15 percent slopes	Rock outcrop	7	No	---	---	---	---	---
	Cocolalla	4	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Water	1	No	---	---	---	---	---
3115:								
Northstar-Rock outcrop complex, 3 to 15 percent slopes	Northstar	50	No	Basalt plateaus	---	---	---	---
	Rock outcrop	25	No	---	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
	Rockly	5	No	Basalt plateaus	---	---	---	---
	Rubble land	5	No	---	---	---	---	---
	Cocolalla	4	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Stutler	4	No	Outwash plains	---	---	---	---
	Klickson	2	No	Escarpments	---	---	---	---
3116:								
Northstar-Rockly complex, 0 to 8 percent slopes	Northstar	45	No	Basalt plateaus	---	---	---	---
	Rockly	45	No	Basalt plateaus	---	---	---	---
	Fourmound	4	No	Mounds on basalt plateaus	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
	Cocolalla	2	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Speigle	1	No	Escarpments	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3117:								
Northstar-Rock outcrop-Rockly complex, 0 to 15 percent slopes	Northstar	25	No	Basalt plateaus	---	---	---	---
	Rock outcrop	25	No	---	---	---	---	---
	Rockly	25	No	Basalt plateaus	---	---	---	---
	Fourmound	10	No	Mounds on basalt plateaus	---	---	---	---
	Cocolalla	5	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Rubble land	5	No	---	---	---	---	---
	Speigle	5	No	Escarpments	---	---	---	---
3118:								
Rockly-Cocolalla complex, 0 to 8 percent slopes	Rockly	40	No	Basalt plateaus	---	---	---	---
	Cocolalla	35	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Fourmound	10	No	Mounds on basalt plateaus	---	---	---	---
	Northstar	5	No	Basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Water	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3120:								
Marble loamy sand, 0 to 8 percent slopes	Marble	80	No	Outwash plains	---	---	---	---
	Hagen	10	No	Outwash terraces	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
	Marblespring	5	No	Outwash terraces	---	---	---	---
3121:								
Marble loamy sand, 8 to 15 percent slopes	Marble	75	No	Outwash plains	---	---	---	---
	Marblespring	10	No	Outwash terraces	---	---	---	---
	Bong	5	No	Outwash plains	---	---	---	---
	Hagen	5	No	Outwash terraces	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
3122:								
Marble loamy sand, 15 to 30 percent slopes	Marble	75	No	Outwash plains	---	---	---	---
	Marblespring	10	No	Outwash terraces	---	---	---	---
	Hagen	5	No	Outwash terraces	---	---	---	---
	Hardesty	5	No	Depressions, drainageways	---	---	---	---
	Bong	3	No	Outwash plains	---	---	---	---
	Elmira	2	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3123:								
Marble loamy sand, 30 to 55 percent slopes	Marble	75	No	Outwash plains	---	---	---	---
	Spens	12	No	Outwash terraces	---	---	---	---
	Hagen	5	No	Outwash terraces	---	---	---	---
	Spens, cool	4	No	Outwash terraces	---	---	---	---
	Bong	3	No	Outwash plains	---	---	---	---
	Hardesty	1	No	Depressions, drainageways	---	---	---	---
3126:								
Rock outcrop-Northstar complex, 15 to 30 percent slopes	Rock outcrop	40	No	---	---	---	---	---
	Northstar	35	No	Basalt plateaus	---	---	---	---
	Speigle	10	No	Escarpments	---	---	---	---
	Fourmound	5	No	Mounds on basalt plateaus	---	---	---	---
	Rockly	5	No	Basalt plateaus	---	---	---	---
	Rubble land	5	No	---	---	---	---	---
3127:								
Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes	Marblespring	75	No	Outwash terraces	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3127:								
Marblespring fine gravelly loamy coarse sand, 0 to 8 percent slopes	Hardesty	5	No	Drainageways	---	---	---	---
	Phoebe	5	No	Outwash plains	---	---	---	---
	Spens	5	No	Outwash terraces	---	---	---	---
3130:								
Phoebe ashy sandy loam, 0 to 3 percent slopes	Phoebe	75	No	Outwash plains	---	---	---	---
	Clayton	14	No	Outwash terraces	---	---	---	---
	Bong	6	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
3131:								
Phoebe ashy sandy loam, 3 to 8 percent slopes	Phoebe	85	No	Outwash plains	---	---	---	---
	Bong	5	No	Outwash plains	---	---	---	---
	Clayton	5	No	Outwash terraces	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
3132:								
Bong, moist-Phoebe complex, 8 to 15 percent slopes	Bong, moist	45	No	Outwash plains	---	---	---	---
	Phoebe	40	No	Outwash plains	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
3133:								
Phoebe ashy sandy loam, dry, 0 to 3 percent slopes	Phoebe, dry	75	No	Outwash plains	---	---	---	---
	Clayton	14	No	Outwash terraces	---	---	---	---
	Bong	6	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3134:								
Phoebe ashy sandy loam, dry, 3 to 8 percent slopes	Phoebe, dry	85	No	Outwash plains	---	---	---	---
	Bong	5	No	Outwash plains	---	---	---	---
	Clayton	5	No	Outwash terraces	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
3135:								
Bong-Phoebe, dry, complex, 8 to 15 percent slopes	Bong	45	No	Outwash plains	---	---	---	---
	Phoebe, dry	40	No	Outwash plains	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
3140:								
Springdale gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Springdale	70	No	Outwash terraces	---	---	---	---
	Marble	10	No	Outwash plains	---	---	---	---
	Garrison	5	No	Outwash plains	---	---	---	---
	Hardesty	5	No	Drainageways	---	---	---	---
	Opportunity	5	No	Outwash plains	---	---	---	---
	Springdale, stony surface	5	No	Outwash terraces	---	---	---	---
3141:								
Springdale gravelly ashy coarse sandy loam, 8 to 15 percent slopes	Springdale	60	No	Outwash terraces	---	---	---	---
	Marble	14	No	Outwash plains	---	---	---	---
	Spens	14	No	Outwash terraces	---	---	---	---
	Garrison	5	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3141:								
Springdale gravelly ashy coarse sandy loam, 8 to 15 percent slopes	Opportunity	5	No	Outwash plains	---	---	---	---
	Hardesty	2	No	Drainageways	---	---	---	---
3142:								
Spens very gravelly loamy coarse sand, 15 to 30 percent slopes	Spens	65	No	Outwash terraces	---	---	---	---
	Marble	14	No	Outwash plains	---	---	---	---
	Springdale	14	No	Outwash terraces	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Hardesty	2	No	Drainageways	---	---	---	---
3143:								
Spens very gravelly loamy coarse sand, 30 to 65 percent slopes	Spens	60	No	Outwash terraces	---	---	---	---
	Bong, moist	14	No	Outwash plains	---	---	---	---
	Marble	14	No	Outwash plains	---	---	---	---
	Springdale	6	No	Outwash terraces	---	---	---	---
	Wapal	6	No	Outwash terraces	---	---	---	---
3144:								
Wapal gravelly ashy coarse sandy loam, 0 to 8 percent slopes	Wapal	85	No	Outwash terraces	---	---	---	---
	Bonner	8	No	Outwash terraces	---	---	---	---
	Kaniksu	7	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3145:								
Wapal gravelly ashy coarse sandy loam, 15 to 30 percent slopes	Wapal	65	No	Outwash terraces	---	---	---	---
	Scoap	14	No	Escarpments	---	---	---	---
	Springdale	11	No	Outwash terraces	---	---	---	---
	Elmira	5	No	Outwash terraces	---	---	---	---
	Klickson	5	No	Escarpments	---	---	---	---
3146:								
Scoap-Wapal complex, 30 to 60 percent slopes	Scoap	45	No	Escarpments	---	---	---	---
	Wapal	35	No	Outwash terraces	---	---	---	---
	Elmira	5	No	Outwash terraces	---	---	---	---
	Klickson	5	No	Escarpments	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Rubble land	5	No	---	---	---	---	---
3147:								
Spens very gravelly loamy coarse sand, cool, 15 to 30 percent slopes	Spens, cool	85	No	Outwash terraces	---	---	---	---
	Marble	5	No	Outwash plains	---	---	---	---
	Springdale	5	No	Outwash terraces	---	---	---	---
	Wapal	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3148:								
Spens very gravelly loamy coarse sand, cool, 30 to 65 percent slopes	Spens, cool	80	No	Outwash terraces	---	---	---	---
	Elmira	5	No	Outwash terraces	---	---	---	---
	Marble	5	No	Outwash plains	---	---	---	---
	Spens	5	No	Outwash terraces	---	---	---	---
	Wapal	5	No	Outwash terraces	---	---	---	---
3200:								
Torboy fine gravelly ashy coarse sandy loam, 0 to 3 percent slopes	Torboy	85	No	Outwash terraces	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
	Eloika	5	No	Outwash plains	---	---	---	---
	Scrabblers	5	No	Outwash plains	---	---	---	---
3201:								
Torboy ashy sandy loam, 3 to 8 percent slopes	Torboy	75	No	Outwash terraces	---	---	---	---
	Eloika	10	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Blackprince	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3202:								
Torboy-Blackprince complex, 8 to 15 percent slopes	Torboy	55	No	Hills, outwash terraces	---	---	---	---
	Blackprince	20	No	Hills	---	---	---	---
	Eloika	10	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
3210:								
Kaniksu ashy sandy loam, 0 to 3 percent slopes	Kaniksu	70	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Torboy	10	No	Outwash terraces	---	---	---	---
	Eloika	5	No	Outwash plains	---	---	---	---
	Colburn	3	No	Drainageways	---	---	---	---
	Wolfeson	2	No	Outwash plains	---	---	---	---
3211:								
Kaniksu ashy sandy loam, 3 to 8 percent slopes	Kaniksu	70	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Torboy	10	No	Outwash terraces	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
	Eloika	5	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3212:								
Kaniksu, dry-Seaboldt complex, 0 to 8 percent slopes	Kaniksu, dry	50	No	Outwash plains	---	---	---	---
	Seaboldt	30	No	Outwash plains on basalt plateaus	---	---	---	---
	Stapaloop	10	No	Outwash plains	---	---	---	---
	Elmira	5	No	Outwash plains	---	---	---	---
	Kaniksu	3	No	Outwash plains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
3220:								
Stapaloop ashy fine sandy loam, 0 to 8 percent slopes	Stapaloop	75	No	Outwash plains	---	---	---	---
	Fan Lake	10	No	Outwash plains	---	---	---	---
	Kaniksu, dry	5	No	Outwash plains	---	---	---	---
	Scrabblers	5	No	Outwash plains	---	---	---	---
	Wolfeson	5	No	Outwash plains	---	---	---	---
3221:								
Stapaloop-Kaniksu, dry complex, 8 to 25 percent slopes	Stapaloop	55	No	Outwash plains	---	---	---	---
	Kaniksu, dry	30	No	Outwash plains	---	---	---	---
	Fan Lake	10	No	Outwash plains	---	---	---	---
	Torboy	3	No	Outwash terraces	---	---	---	---
	Kaniksu	2	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3222:								
Stapaloop-Seaboldt complex, 0 to 8 percent slopes	Stapaloop	50	No	Outwash plains on basalt plateaus	---	---	---	---
	Seaboldt	35	No	Outwash plains	---	---	---	---
	Kaniksu, dry	10	No	Outwash plains	---	---	---	---
	Fan Lake	3	No	Outwash plains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
3300:								
Scrabblers ashy fine sandy loam, 0 to 3 percent slopes	Scrabblers	70	No	Outwash plains	---	---	---	---
	Eloika	10	No	Outwash plains	---	---	---	---
	Kaniksu, dry	10	No	Outwash plains	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
	Torboy	5	No	Outwash terraces	---	---	---	---
3301:								
Scrabblers ashy fine sandy loam, 3 to 8 percent slopes	Scrabblers	75	No	Outwash plains	---	---	---	---
	Kaniksu, dry	10	No	Outwash plains	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
	Eloika	5	No	Outwash plains	---	---	---	---
	Elmira	3	No	Outwash plains	---	---	---	---
	Kaniksu	2	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3302:								
Scrabblers ashy fine sandy loam, 8 to 15 percent slopes	Scrabblers	70	No	Outwash plains	---	---	---	---
	Blackprince	10	No	Hills	---	---	---	---
	Torboy	10	No	Outwash terraces	---	---	---	---
	Eloika	8	No	Outwash plains	---	---	---	---
	Eloika, moist	2	No	Outwash plains	---	---	---	---
3303:								
Scrabblers-Torboy complex, 3 to 15 percent slopes	Scrabblers	60	No	Outwash plains	---	---	---	---
	Torboy	30	No	Outwash terraces	---	---	---	---
	Kaniksu, dry	5	No	Outwash plains	---	---	---	---
	Eloika	3	No	Outwash plains	---	---	---	---
	Colburn	2	No	Drainageways	---	---	---	---
3401:								
Elmira loamy sand, 3 to 15 percent slopes	Elmira	75	No	Outwash terraces	---	---	---	---
	Hagen	10	No	Outwash terraces	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3402:								
Elmira loamy sand, 15 to 30 percent slopes	Elmira	60	No	Outwash terraces	---	---	---	---
	Hagen	14	No	Outwash terraces	---	---	---	---
	Stapaloop	11	No	Outwash plains	---	---	---	---
	Scrabblers	10	No	Outwash plains	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
3403:								
Elmira loamy sand, 30 to 60 percent slopes	Elmira	70	No	Outwash terraces	---	---	---	---
	Hagen	14	No	Outwash terraces	---	---	---	---
	Scrabblers	11	No	Outwash plains	---	---	---	---
	Colburn	5	No	Drainageways	---	---	---	---
3404:								
Elmira-Seaboldt complex, 8 to 25 percent slopes	Elmira	50	No	Outwash terraces	---	---	---	---
	Seaboldt	35	No	Outwash plains on basalt plateaus	---	---	---	---
	Kaniksu, dry	10	No	Outwash plains	---	---	---	---
	Marble	3	No	Outwash plains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3500:								
Uhlig ashy silt loam, 0 to 8 percent slopes	Uhlig	75	No	Outwash terraces	---	---	---	---
	Bong, moist	10	No	Outwash plains	---	---	---	---
	Narcisse	10	No	Drainageways	---	---	---	---
	Hardesty	5	No	Depressions, stream terraces	---	---	---	---
3501:								
Brincken, moist-Uhlig complex, 0 to 8 percent slopes	Brincken, moist	45	No	Outwash terraces on loess hills	---	---	---	---
	Uhlig	30	No	Outwash terraces	---	---	---	---
	Fourmound	14	No	Mounds on basalt plateaus	---	---	---	---
	Seaboldt	6	No	Outwash plains on basalt plateaus	---	---	---	---
	Nez Perce	5	No	Loess hills	---	---	---	---
3502:								
Brincken, moist-Fourmound complex, 0 to 15 percent slopes	Brincken, moist	45	No	Outwash terraces on loess hills	---	---	---	---
	Fourmound	40	No	Mounds on basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3502:								
Brincken, moist-Fourmound complex, 0 to 15 percent slopes	Speigle	10	No	Escarpments	---	---	---	---
	Bobbitt	3	No	Basalt plateaus	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
3503:								
Uhlig ashy silt loam, dry, 0 to 8 percent slopes	Uhlig, dry	80	No	Outwash terraces	---	---	---	---
	Bong	5	No	Outwash plains	---	---	---	---
	Cheney	5	No	Outwash plains	---	---	---	---
	Narcisse	5	No	Drainageways	---	---	---	---
	Deno	3	No	Mounds on basalt plateaus	---	---	---	---
	Seaboldt, dry	2	No	Outwash plains on basalt plateaus	---	---	---	---
3504:								
Brincken ashy silt loam, 0 to 8 percent slopes	Brincken	70	No	Outwash terraces on loess hills	---	---	---	---
	Reardan	10	No	Loess hills	---	---	---	---
	Athena	6	No	Loess hills	---	---	---	---
	Cheney	5	No	Outwash plains	---	---	---	---
	Uhlig, dry	5	No	Outwash terraces	---	---	---	---
	Tucannon	3	No	Basalt plateaus	---	---	---	---
	Narcisse	1	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3505:								
Seaboldt, warm-Brincken, moist complex, 0 to 8 percent slopes	Seaboldt, warm	60	No	Outwash plains on basalt plateaus	---	---	---	---
	Brincken, moist	25	No	Outwash terraces on loess hills	---	---	---	---
	Nez Perce	5	No	Loess hills	---	---	---	---
	Uhlig	5	No	Outwash terraces	---	---	---	---
	Urban land	5	No	---	---	---	---	---
3600:								
Seaboldt ashy loam, 0 to 8 percent slopes	Seaboldt	65	No	Outwash plains on basalt plateaus	---	---	---	---
	Uhlig	10	No	Outwash terraces	---	---	---	---
	Rockly	8	No	Basalt plateaus	---	---	---	---
	Brincken, moist	5	No	Outwash terraces on loess hills	---	---	---	---
	Fourmound	5	No	Mounds on basalt plateaus	---	---	---	---
	Phoebe	5	No	Outwash plains	---	---	---	---
	Narcisse	2	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
3601:								
Seaboldt ashy loam, 8 to 15 percent slopes	Seaboldt	65	No	Outwash plains on basalt plateaus	---	---	---	---
	Fourmound	10	No	Mounds on basalt plateaus	---	---	---	---
	Northstar	10	No	Basalt plateaus	---	---	---	---
	Uhlig	10	No	Outwash terraces	---	---	---	---
	Phoebe	5	No	Outwash plains	---	---	---	---
4000:								
Hunters ashy silt loam, 0 to 8 percent slopes	Hunters	75	No	Relict glacial lake terraces	---	---	---	---
	Cedonia	10	No	Relict glacial lake terraces	---	---	---	---
	Peone	10	Yes	Drainageways	2	Yes	No	No
	Lakespring	5	No	Relict glacial lake terraces	---	---	---	---
4001:								
Cedonia ashy silt loam, 0 to 8 percent slopes	Cedonia	70	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Green Bluff	10	No	Outwash plains on basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
4001:								
Cedonia ashy silt loam, 0 to 8 percent slopes	Lakespring	10	No	Relict glacial lake terraces	---	---	---	---
	Hunters	5	No	Relict glacial lake terraces	---	---	---	---
	Peone	5	Yes	Drainageways	2	Yes	No	No
4002:								
Cedonia ashy silt loam, 8 to 25 percent slopes	Cedonia	70	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Lakespring	10	No	Relict glacial lake terraces	---	---	---	---
	Peone	10	Yes	Drainageways	2	Yes	No	No
	Green Bluff	5	No	Outwash plains on basalt plateaus	---	---	---	---
	Hunters	5	No	Relict glacial lake terraces	---	---	---	---
4031:								
Lakespring ashy loam, 0 to 8 percent slopes	Lakespring	80	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Brincken, moist	5	No	Outwash terraces on loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
4031:								
Lakespring ashy loam, 0 to 8 percent slopes	Cedonia	5	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Green Bluff	5	No	Outwash plains on basalt plateaus	---	---	---	---
	Dearyton	3	No	Hills	---	---	---	---
	Speigle	2	No	Escarpments	---	---	---	---
4032:								
Lakespring ashy loam, 8 to 25 percent slopes	Lakespring	70	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Spokane	9	No	Hills	---	---	---	---
	Brincken, moist	5	No	Outwash terraces on loess hills	---	---	---	---
	Dearyton	5	No	Hills	---	---	---	---
	Marble	5	No	Outwash plains	---	---	---	---
	Speigle	5	No	Escarpments	---	---	---	---
	Rock outcrop	1	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
4033:								
Lakespring-Brincken, moist, complex, 8 to 25 percent slopes	Lakespring	50	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Brincken, moist	35	No	Outwash terraces on loess hills	---	---	---	---
	Speigle	10	No	Escarpments	---	---	---	---
	Dearyton	3	No	Hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
4040:								
Wolfeson-Fan Lake complex, 0 to 8 percent slopes	Wolfeson	60	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Fan Lake	25	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Stapaloop	10	No	Outwash plains	---	---	---	---
	Bridgeson	5	Yes	Drainageways	2	Yes	No	No
4041:								
Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes	Wolfeson	85	No	Relict glacial lake terraces, outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
4041:								
Wolfeson ashy very fine sandy loam, 0 to 3 percent slopes	Fan Lake	10	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Bridgeson	3	Yes	Drainageways	2	Yes	No	No
	Stapaloop	2	No	Outwash plains	---	---	---	---
4050:								
Fan Lake ashy very fine sandy loam, 0 to 8 percent slopes	Fan Lake	85	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Green Bluff	5	No	Outwash plains on basalt plateaus	---	---	---	---
	Klickson	5	No	Escarpments	---	---	---	---
	Wolfeson	3	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Kronquist	2	Yes	Stream terraces, drainageways	2	Yes	No	No
4051:								
Fan Lake ashy very fine sandy loam, 8 to 25 percent slopes	Fan Lake	75	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Klickson	10	No	Escarpments	---	---	---	---
	Kruse	7	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
4051:								
Fan Lake ashy very fine sandy loam, 8 to 25 percent slopes	Blinn, stony surface	3	No	Basalt plateaus, basalt escarpments	---	---	---	---
	Kronquist	3	Yes	Stream terraces, drainageways	2	Yes	No	No
	Quinnamose	2	No	Hills	---	---	---	---
5001:								
Brickel gravelly ashy silt loam, 15 to 30 percent slopes	Brickel	75	No	Mountains, ridges	---	---	---	---
	Vaywood	13	No	Ridges, mountains	---	---	---	---
	Bouldercreek	5	No	Mountains	---	---	---	---
	Brevco	5	No	Mountains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
5023:								
Micapeak-Rock outcrop complex, 8 to 15 percent slopes	Micapeak	55	No	Ridges, hills	---	---	---	---
	Rock outcrop	20	No	---	---	---	---	---
	Quinnamose	10	No	Hills	---	---	---	---
	Clayton	5	No	Outwash terraces	---	---	---	---
	Lenz	5	No	Hills	---	---	---	---
	Spokane	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5024:								
Micapeak-Rock outcrop complex, 15 to 30 percent slopes	Micapeak	55	No	Ridges, hills	---	---	---	---
	Rock outcrop	20	No	---	---	---	---	---
	Quinnamose	10	No	Hills	---	---	---	---
	Brevco	5	No	Hills	---	---	---	---
	Lenz	5	No	Hills	---	---	---	---
	Spokane	5	No	Hills	---	---	---	---
5025:								
Micapeak-Rock outcrop complex, 30 to 55 percent slopes	Micapeak	55	No	Hills	---	---	---	---
	Rock outcrop	20	No	---	---	---	---	---
	Quinnamose	10	No	Hills	---	---	---	---
	Brevco	5	No	Hills	---	---	---	---
	Lenz	5	No	Hills	---	---	---	---
	Spokane	5	No	Hills	---	---	---	---
5026:								
Micapeak-Spokane complex, 15 to 30 percent slopes	Micapeak	40	No	Hills	---	---	---	---
	Spokane	30	No	Hills	---	---	---	---
	Quinnamose	10	No	Hills	---	---	---	---
	Brevco	5	No	Hills	---	---	---	---
	Clayton	5	No	Outwash terraces	---	---	---	---
	Lenz	5	No	Hills	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5027:								
Micapeak-Spokane complex, 30 to 55 percent slopes	Micapeak	40	No	Hills	---	---	---	---
	Spokane	30	No	Hills	---	---	---	---
	Brevco	10	No	Hills	---	---	---	---
	Quinnamose	10	No	Hills	---	---	---	---
	Lenz	5	No	Hills	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5037:								
Spokane-Rock outcrop complex, 30 to 55 percent slopes	Spokane	45	No	Hills	---	---	---	---
	Rock outcrop	25	No	---	---	---	---	---
	Lenz	10	No	Hills	---	---	---	---
	Brevco	5	No	Hills	---	---	---	---
	Kramerhill	5	No	Hills	---	---	---	---
	Micapeak	5	No	Hills	---	---	---	---
	Spens	5	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5040:								
Spokane-Swakane complex, 3 to 15 percent slopes	Spokane	40	No	Ridges, mountains, hills	---	---	---	---
	Swakane	35	No	Ridges, mountains, hills	---	---	---	---
	Kramerhill	10	No	Hills, mountains	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Lenz	5	No	Hills, mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5041:								
Spokane-Swakane complex, 15 to 30 percent slopes	Spokane	40	No	Ridges, mountains, hills	---	---	---	---
	Swakane	35	No	Ridges, mountains, hills	---	---	---	---
	Kramerhill	10	No	Hills, mountains	---	---	---	---
	Lenz	5	No	Hills, mountains	---	---	---	---
	Micapeak	5	No	Hills, mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5053:								
Jacot, dry-Micapeak complex, 30 to 55 percent slopes	Jacot, dry	40	No	Hills, mountains	---	---	---	---
	Micapeak	25	No	Mountains, hills	---	---	---	---
	Hysing, dry	10	No	Mountains, hills	---	---	---	---
	Jacot	10	No	Hills, mountains	---	---	---	---
	Boulderjud, dry	8	No	Hills, mountains	---	---	---	---
	Boulderjud	5	No	Hills, mountains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
5060:								
Bouldercreek ashy silt loam, moist, 3 to 15 percent slopes	Bouldercreek, moist	65	No	Mountains	---	---	---	---
	Boulderjud	10	No	Mountains	---	---	---	---
	Lakestarr	10	No	Mountains, hills	---	---	---	---
	Nakarna	10	No	Mountains	---	---	---	---
	Hoodoo	5	Yes	Flood plains	2, 4	Yes	Yes	No

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5061:								
Nakarna-Nakarna, dry complex, 15 to 30 percent slopes	Nakarna	40	No	Hills, mountains	---	---	---	---
	Nakarna, dry	35	No	Hills, mountains	---	---	---	---
	Kruse	10	No	Hills	---	---	---	---
	Bouldercreek	5	No	Hills, mountains	---	---	---	---
	Lakestarr	5	No	Mountains, hills	---	---	---	---
	Quinnamose	5	No	Hills	---	---	---	---
5062:								
Nakarna ashy silt loam, 30 to 60 percent slopes	Nakarna	65	No	Hills, mountains	---	---	---	---
	Bouldercreek	10	No	Hills, mountains	---	---	---	---
	Kruse	10	No	Hills	---	---	---	---
	Nakarna, dry	10	No	Hills, mountains	---	---	---	---
	Quinnamose	5	No	Hills	---	---	---	---
5067:								
Quinnamose-Micapeak complex, 15 to 30 percent slopes	Quinnamose	40	No	Mountains, hills	---	---	---	---
	Micapeak	30	No	Mountains, ridges, hills	---	---	---	---
	Blackprince	10	No	Mountains, hills	---	---	---	---
	Jacot, dry	10	No	Mountains, hills	---	---	---	---
	Kruse	10	No	Mountains, hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5068:								
Quinnamose-Micapeak complex, 30 to 55 percent slopes	Quinnamose	45	No	Mountains, hills	---	---	---	---
	Micapeak	35	No	Mountains, ridges, hills	---	---	---	---
	Blackprince	10	No	Mountains, hills	---	---	---	---
	Jacot, dry	5	No	Mountains, hills	---	---	---	---
	Kruse	5	No	Mountains, hills	---	---	---	---
5070:								
Lenz-Spokane complex, 3 to 15 percent slopes	Lenz	45	No	Hills	---	---	---	---
	Spokane	35	No	Hills	---	---	---	---
	Kramerhill	5	No	Hills	---	---	---	---
	Micapeak	5	No	Ridges, hills	---	---	---	---
	Swakane	5	No	Ridges, hills	---	---	---	---
	Skalan	3	No	Hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5071:								
Lenz-Spokane complex, 15 to 30 percent slopes	Lenz	45	No	Hills	---	---	---	---
	Spokane	30	No	Hills	---	---	---	---
	Brevco	8	No	Hills	---	---	---	---
	Kramerhill	5	No	Hills	---	---	---	---
	Micapeak	5	No	Ridges, hills	---	---	---	---
	Swakane	5	No	Ridges, hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
5072:								
Lenz-Rock outcrop complex, 3 to 15 percent slopes	Lenz	40	No	Hills	---	---	---	---
	Rock outcrop	25	No	---	---	---	---	---
	Swakane	14	No	Ridges, hills	---	---	---	---
	Spokane	10	No	Hills	---	---	---	---
	Clayton	5	No	Outwash terraces	---	---	---	---
	Micapeak	5	No	Ridges, hills	---	---	---	---
	Hardesty	1	No	Drainageways	---	---	---	---
5073:								
Lenz-Rock outcrop complex, 15 to 30 percent slopes	Lenz	50	No	Hills	---	---	---	---
	Rock outcrop	20	No	---	---	---	---	---
	Swakane	14	No	Ridges, hills	---	---	---	---
	Spokane	10	No	Hills	---	---	---	---
	Micapeak	6	No	Ridges, hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5074:								
Lenz-Rock outcrop complex, 30 to 60 percent slopes	Lenz	45	No	Hills	---	---	---	---
	Rock outcrop	25	No	---	---	---	---	---
	Spokane	10	No	Hills	---	---	---	---
	Swakane	10	No	Ridges, hills	---	---	---	---
	Brevco	5	No	Hills	---	---	---	---
	Micapeak	5	No	Ridges, hills	---	---	---	---
5080:								
Vaywood medial silt loam, 15 to 30 percent slopes	Vaywood	75	No	Ridges, mountains	---	---	---	---
	Vay	10	No	Ridges, mountains	---	---	---	---
	Brevco	5	No	Mountains	---	---	---	---
	Brickel	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5081:								
Vaywood medial silt loam, 30 to 60 percent slopes	Vaywood	70	No	Ridges, mountains	---	---	---	---
	Bouldercreek	10	No	Mountains	---	---	---	---
	Vay	10	No	Ridges, mountains	---	---	---	---
	Brickel	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5090:								
Brevco-Ardtoo complex, 3 to 15 percent slopes	Brevco	50	No	Hills, mountains	---	---	---	---
	Ardtoo	25	No	Mountains, hills	---	---	---	---
	Blackprince	10	No	Hills	---	---	---	---
	Kellerbutte	10	No	Hills, mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5091:								
Brevco gravelly ashy sandy loam, 15 to 30 percent slopes	Brevco	70	No	Hills, mountains	---	---	---	---
	Ardtoo	10	No	Mountains, hills	---	---	---	---
	Blackprince	8	No	Hills	---	---	---	---
	Kellerbutte	5	No	Hills, mountains	---	---	---	---
	Quinnamose	5	No	Mountains, hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
5092:								
Brevco-Rock outcrop complex, 30 to 60 percent slopes	Brevco	60	No	Hills, mountains	---	---	---	---
	Rock outcrop	15	No	---	---	---	---	---
	Ardtoo	10	No	Mountains, hills	---	---	---	---
	Blackprince	10	No	Mountains, hills	---	---	---	---
	Quinnamose	5	No	Mountains, hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5093:								
Blackprince-Ardtoo complex, 15 to 30 percent slopes	Blackprince	40	No	Mountains, hills	---	---	---	---
	Ardtoo	35	No	Mountains, hills	---	---	---	---
	Brevco	10	No	Hills, mountains	---	---	---	---
	Boulderjud, dry	5	No	Hills, mountains	---	---	---	---
	Boulderjud	5	No	Hills, mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5094:								
Blackprince-Ardtoo complex, 30 to 60 percent slopes	Blackprince	40	No	Mountains, hills	---	---	---	---
	Ardtoo	35	No	Mountains, hills	---	---	---	---
	Boulderjud, dry	10	No	Hills, mountains	---	---	---	---
	Boulderjud	5	No	Hills, mountains	---	---	---	---
	Brevco	5	No	Hills, mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5102:								
Boulderjud ashy silt loam, 15 to 30 percent slopes	Boulderjud	65	No	Hills, mountains	---	---	---	---
	Boulderjud, dry	10	No	Hills, mountains	---	---	---	---
	Jacot	10	No	Hills, mountains	---	---	---	---
	Ardtoo	5	No	Mountains, hills	---	---	---	---
	Bouldercreek	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5103:								
Boulderjud ashy silt loam, 30 to 60 percent slopes	Boulderjud	65	No	Hills, mountains	---	---	---	---
	Boulderjud, dry	10	No	Hills, mountains	---	---	---	---
	Jacot	10	No	Hills, mountains	---	---	---	---
	Ardtoo	5	No	Mountains, hills	---	---	---	---
	Bouldercreek	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5104:								
Boulderjud ashy silt loam, dry, 15 to 30 percent slopes	Boulderjud, dry	60	No	Hills, mountains	---	---	---	---
	Ardtoo	10	No	Mountains, hills	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Jacot, dry	10	No	Hills, mountains	---	---	---	---
	Blackprince	5	No	Mountains, hills	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5105:								
Boulderjud ashy silt loam, dry, 30 to 60 percent slopes	Boulderjud, dry	55	No	Hills, mountains	---	---	---	---
	Ardtoo	10	No	Mountains, hills	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Jacot, dry	10	No	Hills, mountains	---	---	---	---
	Blackprince	5	No	Mountains, hills	---	---	---	---
	Bouldercreek	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5110:								
Bouldercreek ashy silt loam, 15 to 30 percent slopes	Bouldercreek	80	No	Mountains	---	---	---	---
	Boulderjud	10	No	Mountains	---	---	---	---
	Kellerbutte	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5111:								
Bouldercreek ashy silt loam, 30 to 60 percent slopes	Bouldercreek	75	No	Mountains	---	---	---	---
	Nakarna	10	No	Mountains	---	---	---	---
	Boulderjud	5	No	Mountains	---	---	---	---
	Kellerbutte	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5112:								
Bouldercreek ashy silt loam, dry, 15 to 30 percent slopes	Bouldercreek, dry	70	No	Mountains	---	---	---	---
	Bouldercreek	10	No	Mountains	---	---	---	---
	Brevco	5	No	Mountains	---	---	---	---
	Jacot	5	No	Mountains	---	---	---	---
	Kellerbutte	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5113:								
Bouldercreek, dry-Kellerbutte complex, 30 to 60 percent slopes	Bouldercreek, dry	40	No	Mountains	---	---	---	---
	Kellerbutte	35	No	Mountains	---	---	---	---
	Bouldercreek	10	No	Mountains	---	---	---	---
	Brevco	5	No	Mountains	---	---	---	---
	Jacot	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5114:								
Bouldercreek-Rock outcrop-Bouldercreek, dry complex, 30 to 70 percent slopes	Bouldercreek	40	No	Mountains	---	---	---	---
	Rock outcrop	25	No	---	---	---	---	---
	Bouldercreek, dry	20	No	Mountains	---	---	---	---
	Brevco	5	No	Mountains	---	---	---	---
	Jacot	5	No	Hills, mountains	---	---	---	---
	Kellerbutte	5	No	Mountains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5120:								
Kellerbutte-Boulderjud complex, 15 to 30 percent slopes	Kellerbutte	40	No	Mountains	---	---	---	---
	Boulderjud	30	No	Hills, mountains	---	---	---	---
	Jacot	10	No	Hills, mountains	---	---	---	---
	Micapeak	10	No	Ridges, hills, mountains	---	---	---	---
	Kruse	5	No	Hills, mountains	---	---	---	---
	Nakarna	3	No	Hills, mountains	---	---	---	---
	Brevco	2	No	Hills, mountains	---	---	---	---
5121:								
Kellerbutte-Brevco complex, 15 to 30 percent slopes	Kellerbutte	45	No	Hills, mountains	---	---	---	---
	Brevco	30	No	Hills, mountains	---	---	---	---
	Ardtoo	13	No	Mountains, hills	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5122:								
Kellerbutte-Brevco complex, 30 to 60 percent slopes	Kellerbutte	40	No	Hills, mountains	---	---	---	---
	Brevco	35	No	Hills, mountains	---	---	---	---
	Ardtoo	10	No	Mountains, hills	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
5123:								
Kellerbutte-Boulderjud, dry, complex, 30 to 60 percent slopes	Kellerbutte	40	No	Hills, mountains	---	---	---	---
	Boulderjud, dry	35	No	Hills, mountains	---	---	---	---
	Blackprince	10	No	Mountains, hills	---	---	---	---
	Ardtoo	5	No	Mountains, hills	---	---	---	---
	Boulderjud	5	No	Hills, mountains	---	---	---	---
	Jacot	5	No	Hills, mountains	---	---	---	---
5130:								
Brodeer ashy silt loam, 3 to 15 percent slopes	Brodeer	70	No	Hills	---	---	---	---
	Jacot	10	No	Hills	---	---	---	---
	Jacot, dry	10	No	Hills	---	---	---	---
	Kruse	5	No	Hills	---	---	---	---
	Lakestarr	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5140: Jacot-Hysing complex, dry, 3 to 15 percent slopes	Jacot, dry	50	No	Hills, mountains	---	---	---	---
	Hysing, dry	25	No	Hills, mountains	---	---	---	---
	Brodeer	10	No	Hills	---	---	---	---
	Jacot	10	No	Hills, mountains	---	---	---	---
	Kruse	5	No	Hills	---	---	---	---
5141: Jacot-Hysing complex, 15 to 30 percent slopes	Jacot	50	No	Hills, mountains	---	---	---	---
	Hysing	25	No	Hills, mountains	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Jacot, dry	10	No	Hills, mountains	---	---	---	---
	Brodeer	5	No	Hills	---	---	---	---
5142: Jacot-Hysing complex, 30 to 55 percent slopes	Jacot	50	No	Hills, mountains	---	---	---	---
	Hysing	25	No	Hills, mountains	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Jacot, dry	10	No	Hills, mountains	---	---	---	---
	Hysing, dry	5	No	Hills, mountains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5143:								
Jacot-Hysing complex, dry, 15 to 30 percent slopes	Jacot, dry	50	No	Hills, mountains	---	---	---	---
	Hysing, dry	25	No	Hills, mountains	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Jacot	10	No	Hills, mountains	---	---	---	---
	Boulderjud, dry	5	No	Hills, mountains	---	---	---	---
5144:								
Jacot-Hysing complex, dry, 30 to 55 percent slopes	Jacot, dry	45	No	Hills, mountains	---	---	---	---
	Hysing, dry	25	No	Hills, mountains	---	---	---	---
	Boulderjud	10	No	Hills, mountains	---	---	---	---
	Boulderjud, dry	10	No	Hills, mountains	---	---	---	---
	Jacot	10	No	Hills, mountains	---	---	---	---
5211:								
Kruse ashy silt loam, 8 to 15 percent slopes	Kruse	75	No	Hills	---	---	---	---
	Keeler, dry	10	No	Hills	---	---	---	---
	Micapeak	10	No	Ridges, hills	---	---	---	---
	Kramerhill	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5212:								
Kruse ashy silt loam, 15 to 30 percent slopes	Kruse	70	No	Hills	---	---	---	---
	Keeler	10	No	Hills	---	---	---	---
	Micapeak	10	No	Ridges, hills	---	---	---	---
	Quinnamose	10	No	Hills	---	---	---	---
5213:								
Kruse ashy silt loam, 30 to 55 percent slopes	Kruse	65	No	Hills	---	---	---	---
	Keeler, dry	10	No	Hills	---	---	---	---
	Micapeak	10	No	Ridges, hills	---	---	---	---
	Quinnamose	10	No	Hills	---	---	---	---
	Boulderjud	5	No	Hills	---	---	---	---
5310:								
Kramerhill ashy loam, 3 to 15 percent slopes	Kramerhill	70	No	Hills	---	---	---	---
	Spokane	10	No	Hills	---	---	---	---
	Swakane	10	No	Hills, ridges	---	---	---	---
	Clayton	5	No	Outwash terraces	---	---	---	---
	Lenz	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5313: Kramerhill-Spokane complex, 8 to 25 percent slopes	Kramerhill	45	No	Hills	---	---	---	---
	Spokane	30	No	Hills	---	---	---	---
	Skalan	10	No	Hills	---	---	---	---
	Lenz	5	No	Hills	---	---	---	---
	Clayton	3	No	Outwash terraces	---	---	---	---
	Micapeak	3	No	Ridges, hills	---	---	---	---
	Kruse	2	No	Hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
5314: Spokane-Kramerhill complex, 25 to 40 percent slopes	Spokane	40	No	Hills, mountains	---	---	---	---
	Kramerhill	35	No	Mountains, hills	---	---	---	---
	Lenz	10	No	Mountains, hills	---	---	---	---
	Skalan	10	No	Mountains, ridges, hills	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
	Micapeak	2	No	Mountains, ridges, hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5321:								
Kramerhill-Uhlig-Skalan complex, 8 to 25 percent slopes	Kramerhill	40	No	Hills	---	---	---	---
	Uhlig	25	No	Outwash terraces	---	---	---	---
	Skalan	15	No	Hills	---	---	---	---
	Glenrose	10	No	Hills	---	---	---	---
	Bong, moist	5	No	Outwash plains	---	---	---	---
	Endoaquolls, deep	5	Yes	Seeps on hillsides	2, 4	Yes	Yes	No
5322:								
Kramerhill-Skalan complex, 15 to 40 percent slopes	Kramerhill	55	No	Hills	---	---	---	---
	Skalan	20	No	Ridges, hills	---	---	---	---
	Spokane	10	No	Hills	---	---	---	---
	Uhlig	10	No	Outwash terraces	---	---	---	---
	Endoaquolls, deep	3	Yes	Seeps on hillsides	2, 4	Yes	Yes	No
	Rock outcrop	2	No	---	---	---	---	---
5412:								
Keeler fine gravelly ashy loam, 8 to 15 percent slopes	Keeler	75	No	Hills, mountains	---	---	---	---
	Kruse	10	No	Hills, mountains	---	---	---	---
	Micapeak	8	No	Mountains, ridges, hills	---	---	---	---
	Santa	3	No	Hills	---	---	---	---
	Kronquist	2	Yes	Drainageways	2	Yes	No	No
	Lakestarr	2	No	Hills, mountains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5413:								
Keeler-Kruse complex, 15 to 30 percent slopes	Keeler	45	No	Mountains, hills	---	---	---	---
	Kruse	40	No	Mountains, hills	---	---	---	---
	Bouldercreek, dry	5	No	Hills, mountains	---	---	---	---
	Lakestarr	5	No	Mountains, hills	---	---	---	---
	Micapeak	5	No	Ridges, hills, mountains	---	---	---	---
5414:								
Keeler-Kruse complex, 30 to 60 percent slopes	Keeler	40	No	Mountains, hills	---	---	---	---
	Kruse	35	No	Hills, mountains	---	---	---	---
	Lakestarr	10	No	Mountains, hills	---	---	---	---
	Micapeak	5	No	Ridges, hills, mountains	---	---	---	---
	Bouldercreek	5	No	Hills, mountains	---	---	---	---
5512:								
Santa ashy silt loam, 8 to 15 percent slopes	Santa	80	No	Hills	---	---	---	---
	Cavendish	5	No	Hills	---	---	---	---
	Crumarine	5	No	Drainageways	---	---	---	---
	Reggear	5	No	Hills	---	---	---	---
	Santa, dry	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5513:								
Santa ashy silt loam, 15 to 35 percent slopes	Santa	85	No	Hills	---	---	---	---
	Kruse	10	No	Hills	---	---	---	---
	Taney	5	No	Loess hills	---	---	---	---
5602:								
Lakestarr-Santa complex, 8 to 15 percent slopes	Lakestarr	40	No	Mountains, hills	---	---	---	---
	Santa	30	No	Loess hills	---	---	---	---
	Keeler	10	No	Mountains, hills	---	---	---	---
	Kruse	10	No	Hills, mountains	---	---	---	---
	Lakestarr, dry	5	No	Hills	---	---	---	---
	Fluvaquents, frigid	3	Yes	Low stream terraces, drainageways	2, 4	Yes	Yes	No
	Lovell	2	No	Drainageways	---	---	---	---
5603:								
Lakestarr-Santa complex, 15 to 30 percent slopes	Lakestarr	40	No	Mountains, hills	---	---	---	---
	Santa	25	No	Loess hills	---	---	---	---
	Keeler	10	No	Mountains, hills	---	---	---	---
	Kruse	10	No	Hills, mountains	---	---	---	---
	Bouldercreek	5	No	Mountains, hills	---	---	---	---
	Lakestarr, dry	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
5603:								
Lakestarr-Santa complex, 15 to 30 percent slopes	Taney	5	No	Loess hills	---	---	---	---
6001:								
Athena silt loam, 0 to 8 percent slopes	Athena	85	No	Loess hills	---	---	---	---
	Broadax	5	No	Loess hills	---	---	---	---
	Lance	5	No	Loess hills	---	---	---	---
	Mondovi	3	No	Drainageways	---	---	---	---
	Caldwell	1	No	Drainageways	---	---	---	---
	Narcisse	1	No	Drainageways	---	---	---	---
6002:								
Athena silt loam, 8 to 15 percent slopes	Athena	70	No	Loess hills	---	---	---	---
	Lance	10	No	Loess hills	---	---	---	---
	Reardan	10	No	Loess hills	---	---	---	---
	Hanning	5	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
	Narcisse	2	No	Drainageways	---	---	---	---
	Mondovi	1	No	Drainageways	---	---	---	---
6003:								
Athena-Lance complex, 15 to 30 percent slopes	Athena	55	No	Loess hills	---	---	---	---
	Lance	25	No	Loess hills	---	---	---	---
	Reardan	7	No	Loess hills	---	---	---	---
	Staley	7	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6003:								
Athena-Lance complex, 15 to 30 percent slopes	Hanning	3	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
	Mondovi	1	No	Drainageways	---	---	---	---
6004:								
Athena-Lance complex, 30 to 60 percent slopes	Athena	40	No	Loess hills	---	---	---	---
	Lance	35	No	Loess hills	---	---	---	---
	Reardan	10	No	Loess hills	---	---	---	---
	Staley	10	No	Loess hills	---	---	---	---
	Hanning	3	No	Loess hills	---	---	---	---
	Broadax	2	No	Loess hills	---	---	---	---
6010:								
Freeman ashy silt loam, 0 to 8 percent slopes	Freeman	65	No	Loess hills	---	---	---	---
	Driscoll	10	No	Loess hills	---	---	---	---
	Larkin	10	No	Loess hills	---	---	---	---
	Carlinton, dry	5	No	Loess hills	---	---	---	---
	Santa	5	No	Loess hills	---	---	---	---
	Lovell	4	No	Drainageways	---	---	---	---
	Aquepts, frigid	1	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6011:								
Freeman ashy silt loam, 8 to 15 percent slopes	Freeman	70	No	Loess hills	---	---	---	---
	Carlinton, dry	10	No	Loess hills	---	---	---	---
	Driscoll	10	No	Loess hills	---	---	---	---
	Larkin	5	No	Loess hills	---	---	---	---
	Lovell	3	No	Drainageways	---	---	---	---
	Endoaquolls	2	Yes	Drainageways	2, 4	Yes	Yes	No
6012:								
Freeman ashy silt loam, 15 to 25 percent slopes	Freeman	60	No	Loess hills	---	---	---	---
	Carlinton, dry	10	No	Loess hills	---	---	---	---
	Driscoll	10	No	Loess hills	---	---	---	---
	Taney	10	No	Loess hills	---	---	---	---
	Lovell	5	No	Drainageways	---	---	---	---
	Santa	5	No	Loess hills	---	---	---	---
6021:								
Garfield-Naff complex, 8 to 35 percent slopes	Garfield	40	No	Loess hills	---	---	---	---
	Naff	35	No	Loess hills	---	---	---	---
	Athena	10	No	Loess hills	---	---	---	---
	Thatuna	10	No	Loess hills	---	---	---	---
	Staley	5	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6031:								
Staley-Naff complex, 8 to 25 percent slopes	Staley	60	No	Loess hills	---	---	---	---
	Naff	25	No	Loess hills	---	---	---	---
	Lance	7	No	Loess hills	---	---	---	---
	Broadax	5	No	Loess hills	---	---	---	---
	Garfield	3	No	Loess hills	---	---	---	---
6040:								
Larkin silt loam, 0 to 8 percent slopes	Larkin	70	No	Loess hills	---	---	---	---
	Freeman	13	No	Loess hills	---	---	---	---
	Driscoll	5	No	Loess hills	---	---	---	---
	Glenrose	5	No	Hills	---	---	---	---
	Southwick	5	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
6041:								
Larkin-Southwick complex, 8 to 15 percent slopes	Larkin	65	No	Loess hills	---	---	---	---
	Southwick	15	No	Loess hills	---	---	---	---
	Freeman	10	No	Loess hills	---	---	---	---
	Caldwell	3	No	Drainageways	---	---	---	---
	Driscoll	3	No	Loess hills	---	---	---	---
	Endoaquolls	2	Yes	Drainageways	2, 4	Yes	Yes	No
	Glenrose	2	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6042:								
Larkin-Southwick complex, 15 to 25 percent slopes	Larkin	60	No	Loess hills	---	---	---	---
	Southwick	20	No	Loess hills	---	---	---	---
	Driscoll	5	No	Loess hills	---	---	---	---
	Freeman	5	No	Loess hills	---	---	---	---
	Gibbs	4	No	Basalt plateaus	---	---	---	---
	Glenrose	4	No	Hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
6043:								
Larkin-Driscoll complex, 0 to 8 percent slopes	Larkin	50	No	Loess hills	---	---	---	---
	Driscoll	35	No	Loess hills	---	---	---	---
	Southwick	7	No	Loess hills	---	---	---	---
	Caldwell	3	No	Drainageways	---	---	---	---
	Freeman	3	No	Loess hills	---	---	---	---
	Glenrose	2	No	Hills	---	---	---	---
6045:								
Southwick-Larkin complex, 15 to 25 percent slopes	Southwick	70	No	Loess hills	---	---	---	---
	Larkin	20	No	Loess hills	---	---	---	---
	Driscoll	5	No	Loess hills	---	---	---	---
	Freeman	2	No	Loess hills	---	---	---	---
	Glenrose	2	No	Hills	---	---	---	---
	Caldwell	1	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6050:								
Tilma-Latah complex, 0 to 8 percent slopes	Tilma	50	No	Loess hills	---	---	---	---
	Latah	30	No	Low stream terraces, drainageways	---	---	---	---
	Caldwell	10	No	Drainageways	---	---	---	---
	Thatuna	5	No	Loess hills	---	---	---	---
	Naff	3	No	Loess hills	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
6061:								
Naff silt loam, 0 to 8 percent slopes	Naff	80	No	Loess hills	---	---	---	---
	Staley	5	No	Loess hills	---	---	---	---
	Thatuna	5	No	Loess hills	---	---	---	---
	Broadax	3	No	Loess hills	---	---	---	---
	Garfield	3	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
	Glenrose	2	No	Hills	---	---	---	---
6062:								
Naff-Thatuna complex, 8 to 25 percent slopes	Naff	55	No	Loess hills	---	---	---	---
	Thatuna	25	No	Loess hills	---	---	---	---
	Garfield	10	No	Loess hills	---	---	---	---
	Athena	3	No	Loess hills	---	---	---	---
	Staley	3	No	Loess hills	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
	Caldwell	2	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6064:								
Naff silt loam, 8 to 15 percent slopes	Naff	75	No	Loess hills	---	---	---	---
	Athena	5	No	Loess hills	---	---	---	---
	Garfield	5	No	Loess hills	---	---	---	---
	Staley	5	No	Loess hills	---	---	---	---
	Thatuna	5	No	Loess hills	---	---	---	---
	Caldwell	3	No	Drainageways	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
6067:								
Naff-Garfield complex, 3 to 15 percent slopes	Naff	60	No	Loess hills	---	---	---	---
	Garfield	20	No	Loess hills	---	---	---	---
	Thatuna	7	No	Loess hills	---	---	---	---
	Athena	5	No	Loess hills	---	---	---	---
	Caldwell	4	No	Drainageways	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
	Staley	2	No	Loess hills	---	---	---	---
6068:								
Naff-Garfield complex, 15 to 25 percent slopes	Naff	50	No	Loess hills	---	---	---	---
	Garfield	30	No	Loess hills	---	---	---	---
	Thatuna	8	No	Loess hills	---	---	---	---
	Athena	5	No	Loess hills	---	---	---	---
	Caldwell	4	No	Drainageways	---	---	---	---
	Staley	3	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6072:								
Hanning silt loam, 8 to 15 percent slopes	Hanning	80	No	Loess hills	---	---	---	---
	Athena	10	No	Loess hills	---	---	---	---
	Lance	5	No	Loess hills	---	---	---	---
	Reardan	5	No	Loess hills	---	---	---	---
6073:								
Hanning silt loam, 15 to 30 percent slopes	Hanning	75	No	Loess hills	---	---	---	---
	Lance	10	No	Loess hills	---	---	---	---
	Athena	5	No	Loess hills	---	---	---	---
	Mondovi	5	No	Drainageways	---	---	---	---
	Reardan	5	No	Loess hills	---	---	---	---
6074:								
Hanning silt loam, 30 to 60 percent slopes	Hanning	85	No	Loess hills	---	---	---	---
	Athena	5	No	Loess hills	---	---	---	---
	Lance	5	No	Loess hills	---	---	---	---
	Reardan	5	No	Loess hills	---	---	---	---
6080:								
Nez Perce ashy silt loam, 0 to 8 percent slopes	Nez Perce	85	No	Loess hills	---	---	---	---
	Brincken, moist	10	No	Outwash terraces on loess hills	---	---	---	---
	Lakespring	3	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Uhlig	2	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6093:								
Reardan silt loam, 0 to 8 percent slopes	Reardan	80	No	Loess hills	---	---	---	---
	Athena	5	No	Loess hills	---	---	---	---
	Broadax	5	No	Loess hills	---	---	---	---
	Lance	5	No	Loess hills	---	---	---	---
	Hanning	3	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
6094:								
Reardan silt loam, 8 to 15 percent slopes	Reardan	75	No	Loess hills	---	---	---	---
	Hanning	10	No	Loess hills	---	---	---	---
	Broadax	5	No	Loess hills	---	---	---	---
	Lance	5	No	Loess hills	---	---	---	---
	Caldwell	3	No	Drainageways	---	---	---	---
	Athena	2	No	Loess hills	---	---	---	---
6096:								
Broadax-Reardan silt loams, 3 to 25 percent slopes	Broadax	45	No	Loess hills	---	---	---	---
	Reardan	40	No	Loess hills	---	---	---	---
	Lance	6	No	Loess hills	---	---	---	---
	Athena	3	No	Loess hills	---	---	---	---
	Caldwell	3	No	Drainageways	---	---	---	---
	Hanning	3	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6110:								
Broadax silt loam, 0 to 8 percent slopes	Broadax	80	No	Loess hills	---	---	---	---
	Athena	6	No	Loess hills	---	---	---	---
	Lance	5	No	Loess hills	---	---	---	---
	Reardan	5	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
	Hanning	2	No	Loess hills	---	---	---	---
6111:								
Broadax silt loam, 8 to 15 percent slopes	Broadax	75	No	Loess hills	---	---	---	---
	Athena	6	No	Loess hills	---	---	---	---
	Reardan	6	No	Loess hills	---	---	---	---
	Lance	5	No	Loess hills	---	---	---	---
	Caldwell	3	No	Drainageways	---	---	---	---
	Naff	3	No	Loess hills	---	---	---	---
	Hanning	2	No	Loess hills	---	---	---	---
6112:								
Broadax silt loam, 15 to 30 percent slopes	Broadax	70	No	Loess hills	---	---	---	---
	Athena	10	No	Loess hills	---	---	---	---
	Lance	10	No	Loess hills	---	---	---	---
	Reardan	5	No	Loess hills	---	---	---	---
	Naff	3	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6130:								
Thatuna-Naff complex, 8 to 15 percent slopes	Thatuna	55	No	Loess hills	---	---	---	---
	Naff	30	No	Loess hills	---	---	---	---
	Athena	8	No	Loess hills	---	---	---	---
	Garfield	5	No	Loess hills	---	---	---	---
	Caldwell	2	No	Drainageways	---	---	---	---
6131:								
Thatuna-Naff complex, 15 to 30 percent slopes	Thatuna	50	No	Loess hills	---	---	---	---
	Naff	30	No	Loess hills	---	---	---	---
	Athena	10	No	Loess hills	---	---	---	---
	Garfield	5	No	Loess hills	---	---	---	---
	Caldwell	3	No	Drainageways	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
6140:								
Driscoll silt loam, 0 to 8 percent slopes	Driscoll	70	No	Loess hills	---	---	---	---
	Larkin	10	No	Loess hills	---	---	---	---
	Southwick	10	No	Loess hills	---	---	---	---
	Bobbitt	5	No	Basalt plateaus	---	---	---	---
	Gibbs	5	No	Basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
6141:								
Driscoll-Larkin complex, 8 to 15 percent slopes	Driscoll	45	No	Loess hills	---	---	---	---
	Larkin	30	No	Loess hills	---	---	---	---
	Southwick	10	No	Loess hills	---	---	---	---
	Cald	5	Yes	Drainageways	2	Yes	No	No
	Glenrose	5	No	Hills	---	---	---	---
	Latah	5	No	Drainageways	---	---	---	---
6200:								
Morical ashy silt loam, 0 to 15 percent slopes	Morical	80	No	Hills	---	---	---	---
	Glenrose	5	No	Hills	---	---	---	---
	Kramerhill	5	No	Hills	---	---	---	---
	Reardan	5	No	Loess hills	---	---	---	---
	Swakane	3	No	Ridges, hills	---	---	---	---
	Athena	2	No	Loess hills	---	---	---	---
6201:								
Morical ashy silt loam, 15 to 30 percent slopes	Morical	75	No	Hills	---	---	---	---
	Athena	10	No	Loess hills	---	---	---	---
	Dearyton	5	No	Hills	---	---	---	---
	Glenrose	5	No	Hills	---	---	---	---
	Kramerhill	5	No	Hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7090:								
Urban land-Lenz, disturbed complex, 3 to 15 percent slopes	Urban land	70	No	---	---	---	---	---
	Lenz, disturbed	20	No	Hills	---	---	---	---
	Spokane, disturbed	5	No	Hills	---	---	---	---
	Swakane, disturbed	3	No	Ridges	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
7091:								
Urban land-Lenz, disturbed complex, 15 to 30 percent slopes	Urban land	70	No	---	---	---	---	---
	Lenz, disturbed	20	No	Hills	---	---	---	---
	Spokane, disturbed	5	No	Hills	---	---	---	---
	Swakane, disturbed	3	No	Hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
7101:								
Pits-Dumps complex	Pits	60	No	---	---	---	---	---
	Dumps	40	No	---	---	---	---	---
7102:								
Riverwash	Riverwash	100	No	---	---	---	---	---
7103:								
Xerolls silt loam, warm, mass wasted, 8 to 25 percent slopes	Xerolls, warm, mass wasted	70	No	Earthflows	---	---	---	---
	Bobbitt	6	No	Basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7103: Xerolls silt loam, warm, mass wasted, 8 to 25 percent slopes	Brincken, moist, mass wasted	6	No	Outwash terraces, earthflows	---	---	---	---
	Dearyton	6	No	Hills	---	---	---	---
	Lakespring	5	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Speigle, mass wasted	4	No	Earthflows	---	---	---	---
	Rock outcrop	3	No	---	---	---	---	---
7104: Xerolls silt loam, cool, mass wasted, 8 to 25 percent slopes	Xerolls, cool, mass wasted	70	No	Earthflows	---	---	---	---
	Fan Lake	7	No	Relict glacial lake terraces, outwash plains	---	---	---	---
	Klickson, mass wasted	7	No	Earthflows	---	---	---	---
	Lakespring	5	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Green Bluff	3	No	Outwash plains on basalt plateaus	---	---	---	---
	Blinn, stony surface	2	No	Basalt escarpments	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7104:								
Xerolls silt loam, cool, mass wasted, 8 to 25 percent slopes	Elmira	2	No	Outwash terraces	---	---	---	---
	Kronquist	2	Yes	Stream terraces, drainageways, flood plains	2	Yes	No	No
	Rock outcrop	2	No	---	---	---	---	---
7105:								
Urban land, gravelly substratum, 0 to 15 percent slopes	Urban land, gravelly substratum	95	No	---	---	---	---	---
	Opportunity, disturbed	3	No	Outwash plains	---	---	---	---
	Marble, disturbed	2	No	Outwash plains	---	---	---	---
7106:								
Urban land, sandy substratum, 0 to 15 percent slopes	Urban land, gravelly substratum	95	No	---	---	---	---	---
	Marble, disturbed	3	No	Outwash plains	---	---	---	---
	Marblespring, disturbed	2	No	Outwash terraces	---	---	---	---
7107:								
Urban land, basalt bedrock substratum, 0 to 15 percent slopes	Urban land, basalt bedrock substratum	95	No	---	---	---	---	---
	Northstar, disturbed	3	No	Basalt plateaus	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7110:								
Urban land-Opportunity, disturbed complex, 0 to 3 percent slopes	Urban land	60	No	---	---	---	---	---
	Opportunity, disturbed	35	No	Outwash plains	---	---	---	---
	Bong, moist, disturbed	1	No	Outwash plains	---	---	---	---
	Garrison, disturbed	1	No	Outwash plains	---	---	---	---
	Hardesty, disturbed	1	No	Depressions, drainageways	---	---	---	---
	Marblespring, disturbed	1	No	Outwash terraces	---	---	---	---
	Springdale, disturbed	1	No	Outwash terraces	---	---	---	---
7111:								
Urban land-Opportunity, disturbed complex, 3 to 8 percent slopes	Urban land	60	No	---	---	---	---	---
	Opportunity, disturbed	35	No	Outwash plains	---	---	---	---
	Bong, moist, disturbed	1	No	Outwash plains	---	---	---	---
	Garrison, disturbed	1	No	Outwash plains	---	---	---	---
	Hardesty, disturbed	1	No	Depressions, drainageways	---	---	---	---
	Marblespring, disturbed	1	No	Outwash terraces	---	---	---	---
	Springdale, disturbed	1	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7112:								
Urban land-Opportunity, disturbed complex, 8 to 15 percent slopes	Urban land	60	No	---	---	---	---	---
	Opportunity, disturbed	35	No	Outwash plains	---	---	---	---
	Bong, moist, disturbed	1	No	Outwash plains	---	---	---	---
	Garrison, disturbed	1	No	Outwash plains	---	---	---	---
	Hardesty, disturbed	1	No	Depressions, drainageways	---	---	---	---
	Marblespring, disturbed	1	No	Outwash terraces	---	---	---	---
	Springdale, disturbed	1	No	Outwash terraces	---	---	---	---
7115:								
Urban land-Marblespring, disturbed complex, 0 to 3 percent slopes	Urban land	70	No	---	---	---	---	---
	Marblespring, disturbed	26	No	Outwash terraces	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---
	Opportunity, disturbed	1	No	Outwash plains	---	---	---	---
	Phoebe, disturbed	1	No	Outwash plains	---	---	---	---
	Springdale, disturbed	1	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7116:								
Urban land-Marblespring, disturbed complex, 3 to 8 percent slopes	Urban land	60	No	---	---	---	---	---
	Marblespring, disturbed	36	No	Outwash terraces	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---
	Opportunity, disturbed	1	No	Outwash plains	---	---	---	---
	Phoebe, disturbed	1	No	Outwash plains	---	---	---	---
	Springdale, disturbed	1	No	Outwash terraces	---	---	---	---
7117:								
Urban land-Marblespring, disturbed complex, 8 to 15 percent slopes	Urban land	60	No	---	---	---	---	---
	Marblespring, disturbed	36	No	Outwash terraces	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---
	Opportunity, disturbed	1	No	Outwash plains	---	---	---	---
	Phoebe, disturbed	1	No	Outwash plains	---	---	---	---
	Springdale, disturbed	1	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7120:								
Urban land-Marble, disturbed complex, 0 to 3 percent slopes	Urban land	60	No	---	---	---	---	---
	Marble, disturbed	35	No	Outwash plains	---	---	---	---
	Marblespring, disturbed	3	No	Outwash terraces	---	---	---	---
	Hardesty, disturbed	2	No	Depressions, drainageways	---	---	---	---
7121:								
Urban land-Marble, disturbed complex, 3 to 8 percent slopes	Urban land	60	No	---	---	---	---	---
	Marble, disturbed	35	No	Outwash plains	---	---	---	---
	Hardesty, disturbed	2	No	Depressions, drainageways	---	---	---	---
	Hagen, disturbed	1	No	Outwash terraces	---	---	---	---
	Marblespring, disturbed	1	No	Outwash terraces	---	---	---	---
	Phoebe, disturbed	1	No	Outwash plains	---	---	---	---
7122:								
Urban land-Marble, disturbed complex, 8 to 15 percent slopes	Urban land	60	No	---	---	---	---	---
	Marble, disturbed	35	No	Outwash plains	---	---	---	---
	Bong, moist, disturbed	1	No	Outwash plains	---	---	---	---
	Hardesty, disturbed	1	No	Depressions, drainageways	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7122: Urban land-Marble, disturbed complex, 8 to 15 percent slopes	Lakespring, disturbed	1	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Marblespring, disturbed	1	No	Outwash terraces	---	---	---	---
	Rock outcrop	1	No	---	---	---	---	---
7123: Urban land-Marble, disturbed complex, 15 to 30 percent slopes	Urban land	60	No	---	---	---	---	---
	Marble, disturbed	35	No	Outwash plains	---	---	---	---
	Lakespring, disturbed	2	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Rock outcrop	1	No	---	---	---	---	---
	Rubble land	1	No	---	---	---	---	---
	Speigle, disturbed	1	No	Escarpments	---	---	---	---
7130: Urban land-Northstar, disturbed complex, 0 to 3 percent slopes	Urban land	60	No	---	---	---	---	---
	Northstar, disturbed	25	No	Basalt plateaus	---	---	---	---
	Rock outcrop	8	No	---	---	---	---	---
	Rockly, disturbed	3	No	Basalt plateaus	---	---	---	---
	Springdale, disturbed	3	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7130:								
Urban land-Northstar, disturbed complex, 0 to 3 percent slopes	Lakespring, disturbed	1	No	Outwash plains, relict glacial lake terraces	---	---	---	---
7131:								
Urban land-Northstar, disturbed complex, 3 to 8 percent slopes	Urban land	60	No	---	---	---	---	---
	Northstar, disturbed	25	No	Basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Rockly, disturbed	5	No	Basalt plateaus	---	---	---	---
	Lakespring, disturbed	3	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Springdale, disturbed	2	No	Outwash terraces	---	---	---	---
7132:								
Urban land-Northstar, disturbed complex, 8 to 15 percent slopes	Urban land	60	No	---	---	---	---	---
	Northstar, disturbed	25	No	Basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Rockly, disturbed	5	No	Basalt plateaus	---	---	---	---
	Seaboldt, disturbed	3	No	Outwash plains on basalt plateaus	---	---	---	---
	Springdale, disturbed	2	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7134:								
Urban land-Northstar, disturbed complex, 15 to 30 percent slopes	Urban land	60	No	---	---	---	---	---
	Northstar, disturbed	25	No	Basalt plateaus	---	---	---	---
	Rock outcrop	8	No	---	---	---	---	---
	Rockly, disturbed	2	No	Basalt plateaus	---	---	---	---
	Speigle, disturbed	2	No	Escarpments	---	---	---	---
	Springdale, disturbed	2	No	Outwash terraces	---	---	---	---
	Lakespring, disturbed	1	No	Outwash plains, relict glacial lake terraces	---	---	---	---
7140:								
Urban land-Uhlig, disturbed complex, 0 to 8 percent slopes	Urban land	70	No	---	---	---	---	---
	Uhlig, disturbed	20	No	Outwash terraces	---	---	---	---
	Seaboldt, warm, disturbed	5	No	Outwash plains on basalt plateaus	---	---	---	---
	Brincken, moist, disturbed	3	No	Outwash terraces on loess hills	---	---	---	---
	Nez Perce, disturbed	2	No	Loess-covered basalt plateaus	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7150:								
Urban land-Seaboldt, disturbed complex, 0 to 3 percent slopes	Urban land	45	No	---	---	---	---	---
	Seaboldt, disturbed	40	No	Outwash plains on basalt plateaus	---	---	---	---
	Brincken, moist, disturbed	5	No	Outwash terraces on loess hills	---	---	---	---
	Uhlig, disturbed	5	No	Outwash terraces	---	---	---	---
	Phoebe, disturbed	3	No	Outwash plains	---	---	---	---
	Marble, disturbed	2	No	Outwash plains	---	---	---	---
7151:								
Urban land-Seaboldt, disturbed complex, 3 to 8 percent slopes	Urban land	65	No	---	---	---	---	---
	Seaboldt, disturbed	25	No	Outwash plains on basalt plateaus	---	---	---	---
	Brincken, moist, disturbed	5	No	Outwash terraces on loess hills	---	---	---	---
	Marble, disturbed	3	No	Outwash plains	---	---	---	---
	Phoebe, disturbed	1	No	Outwash plains	---	---	---	---
	Uhlig, disturbed	1	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7152:								
Urban land-Seaboldt, disturbed complex, 8 to 15 percent slopes	Urban land	70	No	---	---	---	---	---
	Seaboldt, disturbed	20	No	Outwash plains on basalt plateaus	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
	Lakespring, disturbed	2	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Marblespring, disturbed	2	No	Outwash terraces	---	---	---	---
	Springdale, disturbed, stony surface	1	No	Outwash terraces	---	---	---	---
7163:								
Urban land-Spens, disturbed complex, 15 to 30 percent slopes	Urban land	60	No	---	---	---	---	---
	Spens, disturbed	35	No	Outwash terraces	---	---	---	---
	Marble, disturbed	3	No	Outwash plains	---	---	---	---
	Springdale, disturbed	2	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7170:								
Urban land-Springdale, disturbed complex, 0 to 3 percent slopes	Urban land	65	No	---	---	---	---	---
	Springdale, disturbed	30	No	Outwash terraces	---	---	---	---
	Marblespring, disturbed	2	No	Outwash terraces	---	---	---	---
	Opportunity, disturbed	2	No	Outwash plains	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---
7171:								
Urban land-Springdale, disturbed complex, 3 to 8 percent slopes	Urban land	60	No	---	---	---	---	---
	Springdale, disturbed	30	No	Outwash terraces	---	---	---	---
	Marblespring, disturbed	5	No	Outwash terraces	---	---	---	---
	Brincken, moist, disturbed	2	No	Outwash terraces on loess hills	---	---	---	---
	Opportunity, disturbed	2	No	Outwash plains	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---
7172:								
Urban land-Springdale, disturbed complex, 8 to 15 percent slopes	Urban land	60	No	---	---	---	---	---
	Springdale, disturbed	35	No	Outwash terraces	---	---	---	---
	Marblespring, disturbed	3	No	Outwash terraces	---	---	---	---
	Spens, disturbed	2	No	Outwash terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7177:								
Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 0 to 3 percent slopes	Urban land	45	No	---	---	---	---	---
	Seaboldt, warm, disturbed	25	No	Outwash plains on basalt plateaus	---	---	---	---
	Brincken, moist, disturbed	20	No	Outwash terraces on loess hills	---	---	---	---
	Nez Perce, disturbed	5	No	Loess-covered basalt plateaus	---	---	---	---
	Uhlig, disturbed	3	No	Outwash terraces	---	---	---	---
	Stutler, disturbed	2	No	Outwash plains	---	---	---	---
7178:								
Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 3 to 8 percent slopes	Urban land	45	No	---	---	---	---	---
	Seaboldt, warm, disturbed	25	No	Outwash plains on basalt plateaus	---	---	---	---
	Brincken, moist, disturbed	20	No	Outwash terraces on loess hills	---	---	---	---
	Nez Perce, disturbed	5	No	Loess-covered basalt plateaus	---	---	---	---
	Uhlig, disturbed	3	No	Outwash terraces	---	---	---	---
	Stutler, disturbed	2	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7179:								
Urban land-Seaboldt, warm, disturbed-Brincken, moist, disturbed complex, 8 to 15 percent slopes	Urban land	50	No	---	---	---	---	---
	Seaboldt, warm, disturbed	25	No	Outwash plains on basalt plateaus	---	---	---	---
	Brincken, moist, disturbed	20	No	Outwash terraces on loess hills	---	---	---	---
	Rockly, disturbed	3	No	Basalt plateaus	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
7180:								
Urban land-Phoebe, disturbed complex, 0 to 3 percent slopes	Urban land	65	No	---	---	---	---	---
	Phoebe, disturbed	30	No	Outwash plains	---	---	---	---
	Bong, moist, disturbed	2	No	Outwash plains	---	---	---	---
	Hardesty, disturbed	2	No	Depressions, drainageways	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---
7181:								
Urban land-Phoebe, disturbed complex, 3 to 8 percent slopes	Urban land	65	No	---	---	---	---	---
	Phoebe, disturbed	30	No	Outwash plains	---	---	---	---
	Bong, moist, disturbed	2	No	Outwash plains	---	---	---	---
	Hardesty, disturbed	2	No	Depressions, drainageways	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7182:								
Urban land-Phoebe, disturbed complex, 8 to 15 percent slopes	Urban land	65	No	---	---	---	---	---
	Phoebe, disturbed	30	No	Outwash plains	---	---	---	---
	Bong, moist, disturbed	2	No	Outwash plains	---	---	---	---
	Lakespring, disturbed	2	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Marble, disturbed	1	No	Outwash plains	---	---	---	---
7190:								
Urban land-Lakespring, disturbed complex, 0 to 3 percent slopes	Urban land	60	No	---	---	---	---	---
	Lakespring, disturbed	35	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Marble, disturbed	2	No	Outwash plains	---	---	---	---
	Northstar, disturbed	2	No	Basalt plateaus	---	---	---	---
	Rock outcrop	1	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
7191:								
Urban land-Lakespring, disturbed complex, 3 to 8 percent slopes	Urban land	60	No	---	---	---	---	---
	Lakespring, disturbed	35	No	Outwash plains, relict glacial lake terraces	---	---	---	---
	Marble, disturbed	2	No	Outwash plains	---	---	---	---
	Northstar, disturbed	2	No	Basalt plateaus	---	---	---	---
	Rock outcrop	1	No	---	---	---	---	---
7197:								
Urban land-Spokane, disturbed complex, 15 to 30 percent slopes	Urban land	70	No	---	---	---	---	---
	Spokane, disturbed	25	No	Hills	---	---	---	---
	Lenz, disturbed	2	No	Hills	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
	Swakane, disturbed	1	No	Hills	---	---	---	---
7200:								
Rock outcrop-Rubble land complex, cliffs, 0 to 90 percent slopes	Rock outcrop, cliffs	60	No	---	---	---	---	---
	Rubble land, cliffs	40	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
8000:								
Pywell-Bellslake complex, 0 to 3 percent slopes	Pywell	60	Yes	Drainageways, flood plains	1, 3	No	No	Yes
	Bellslake	30	Yes	Low stream terraces, flood plains	2, 3	Yes	No	Yes
	Hoodoo	10	Yes	Flood plains	2, 4	Yes	Yes	No
8001:								
Saltese muck, 0 to 3 percent slopes	Saltese	80	Yes	Flood plains	1, 3	No	No	Yes
	Cocolalla	10	Yes	Drainageways, depressions	2, 3, 4	Yes	Yes	Yes
	Narcisse	5	No	Drainageways	---	---	---	---
	Water	5	---	---	---	---	---	---
8002:								
Saltese muck, drained, 0 to 3 percent slopes	Saltese, drained	75	Yes	Flood plains	1	No	No	No
	Fluvaquentic Haplosaprists	10	Yes	Flood plains	1	No	No	No
	Peone, drained	10	Yes	Depressions, drainageways, flood plains	2	Yes	No	No
	Endoaquolls	5	Yes	Drainageways, stream terraces, flood plains	2, 4	Yes	Yes	No

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9124:								
Caldwell-Cald complex, 0 to 3 percent slopes	Caldwell	60	No	Loess hills, drainageways	---	---	---	---
	Cald	25	Yes	Flood plains	2	Yes	No	No
	Endoaquolls	10	Yes	Drainageways, stream terraces, flood plains	2, 4	Yes	Yes	No
	Thatuna	3	No	Loess hills	---	---	---	---
	Latah	2	No	Low stream terraces, drainageways	---	---	---	---
9300:								
Taney ashy silt loam, 3 to 8 percent slopes	Taney	80	No	Loess hills	---	---	---	---
	Carlinton, dry	10	No	Loess hills	---	---	---	---
	Latahco	5	No	Drainageways, low terraces	---	---	---	---
	Setters	3	No	Loess hills	---	---	---	---
	Southwick	2	No	Loess hills	---	---	---	---
9301:								
Taney ashy silt loam, 8 to 20 percent slopes	Taney	80	No	Loess hills	---	---	---	---
	Carlinton, dry	10	No	Loess hills	---	---	---	---
	Benewah	5	No	Hills	---	---	---	---
	Setters	3	No	Loess hills	---	---	---	---
	Latahco	2	No	Drainageways, low terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9330:								
Carlinton-Carlinton, dry, complex, 3 to 20 percent slopes	Carlinton	50	No	Loess hills	---	---	---	---
	Carlinton, dry	30	No	Loess hills	---	---	---	---
	Lovell	8	Yes	Drainageways	2	Yes	No	No
	Taney	8	No	Loess hills	---	---	---	---
	Benewah	4	No	Hills	---	---	---	---
9335:								
Carlinton ashy silt loam, dry, 8 to 25 percent slopes	Carlinton, dry	80	No	Loess hills	---	---	---	---
	Carlinton	8	No	Loess hills	---	---	---	---
	Taney	5	No	Loess hills	---	---	---	---
	Benewah	3	No	Hills	---	---	---	---
	Lovell	2	Yes	Drainageways	2	Yes	No	No
	Santa	2	No	Loess hills	---	---	---	---
9336:								
Carlinton, dry-Taney complex, 3 to 8 percent slopes	Carlinton, dry	55	No	Loess hills	---	---	---	---
	Taney	25	No	Loess hills	---	---	---	---
	Carlinton	10	No	Loess hills	---	---	---	---
	Benewah	5	No	Hills	---	---	---	---
	Santa	3	No	Loess hills	---	---	---	---
	Latahco	2	No	Drainageways, low terraces	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9340:								
Arson-Lotuspoint complex, 10 to 40 percent slopes	Arson	45	No	Mountains	---	---	---	---
	Lotuspoint	35	No	Mountains	---	---	---	---
	Ardenvoir	10	No	Mountains	---	---	---	---
	Ardenvoir, dry	5	No	Mountains	---	---	---	---
	Bechtel	3	No	Mountains	---	---	---	---
	Sinkler	2	No	Mountains	---	---	---	---
9341:								
Sinkler-Arson complex, 10 to 40 percent slopes	Sinkler	45	No	Mountains, hills	---	---	---	---
	Arson	40	No	Mountains, hills	---	---	---	---
	Benewah	5	No	Hills, mountains	---	---	---	---
	Sharptop	5	No	Hills	---	---	---	---
	Bechtel	3	No	Hills, mountains	---	---	---	---
	Grangemont, warm	2	No	Mountains, hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9342:								
Sinkler, dry-Arson, dry complex, 10 to 40 percent slopes	Sinkler, dry	45	No	Mountains, hills	---	---	---	---
	Arson, dry	40	No	Mountains, hills	---	---	---	---
	Ardenvoir, dry	8	No	Mountains, hills	---	---	---	---
	McCrosket	3	No	Mountain slopes	---	---	---	---
	Lotuspoint	2	No	Mountains, hills	---	---	---	---
	Sinkler	2	No	Mountains, hills	---	---	---	---
9350:								
Southwick ashy silt loam, 3 to 8 percent slopes	Southwick	80	No	Loess hills	---	---	---	---
	Larkin	8	No	Loess hills	---	---	---	---
	Latahco	6	No	Drainageways, low terraces	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
	Driscoll	2	No	Loess hills	---	---	---	---
	Taney	2	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9355:								
Southwick-Driscoll complex, 3 to 15 percent slopes	Southwick	55	No	Loess hills	---	---	---	---
	Driscoll	30	No	Loess hills	---	---	---	---
	Larkin	8	No	Loess hills	---	---	---	---
	Latahco	3	No	Drainageways, low terraces	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
	Garfield	2	No	Loess hills	---	---	---	---
9356:								
Southwick-Driscoll complex, 15 to 25 percent slopes	Southwick	55	No	Loess hills	---	---	---	---
	Driscoll	30	No	Loess hills	---	---	---	---
	Larkin	8	No	Loess hills	---	---	---	---
	Garfield	5	No	Loess hills	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
9363:								
Larkin-Driscoll complex, 3 to 12 percent slopes	Larkin	55	No	Loess hills	---	---	---	---
	Driscoll	30	No	Loess hills	---	---	---	---
	Southwick	8	No	Loess hills	---	---	---	---
	Latahco	3	No	Drainageways, low terraces	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
	Garfield	2	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9364:								
Larkin-Southwick complex, 3 to 12 percent slopes	Larkin	50	No	Loess hills	---	---	---	---
	Southwick	35	No	Loess hills	---	---	---	---
	Driscoll	8	No	Loess hills	---	---	---	---
	Latahco	3	No	Drainageways, low terraces	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
	Taney	2	No	Loess hills	---	---	---	---
9367:								
Larkin-Driscoll complex, 12 to 25 percent slopes	Larkin	55	No	Loess hills	---	---	---	---
	Driscoll	30	No	Loess hills	---	---	---	---
	Garfield	8	No	Loess hills	---	---	---	---
	Southwick	5	No	Loess hills	---	---	---	---
	Cald	2	Yes	Drainageways	2	Yes	No	No
9610:								
Schumacher silt loam, 5 to 25 percent slopes	Schumacher	80	No	Mountains, hills	---	---	---	---
	Tekoa	8	No	Mountains, hills	---	---	---	---
	Libertybutte	5	No	Hills, mountains	---	---	---	---
	McCrosket	5	No	Mountains, hills	---	---	---	---
	Larkin	2	No	Loess hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9611:								
Schumacher-Tekoa complex, 25 to 40 percent slopes	Schumacher	45	No	Mountains, hills	---	---	---	---
	Tekoa	40	No	Mountains, hills	---	---	---	---
	Libertybutte	5	No	Hills, mountains	---	---	---	---
	McCrosket	5	No	Mountains, hills	---	---	---	---
	Cassyhill	3	No	Mountains, hills	---	---	---	---
	Arson, dry	2	No	Mountains, hills	---	---	---	---
9612:								
Libertybutte-Tekoa complex, 5 to 30 percent slopes	Libertybutte	45	No	Hills, mountains	---	---	---	---
	Tekoa	40	No	Mountains, hills	---	---	---	---
	Schumacher	10	No	Mountains, hills	---	---	---	---
	McCrosket	3	No	Mountains, hills	---	---	---	---
	Cassyhill	2	No	Mountains, hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9613:								
Ardenvoir, dry-Lotuspoint complex, 5 to 30 percent slopes	Ardenvoir, dry	50	No	Mountains	---	---	---	---
	Lotuspoint	35	No	Mountains	---	---	---	---
	Arson, dry	5	No	Mountains	---	---	---	---
	Cassyhill	5	No	Mountains	---	---	---	---
	McCrosket	5	No	Mountains	---	---	---	---
9614:								
Ardenvoir, dry-Lotuspoint complex, 30 to 65 percent slopes	Ardenvoir, dry	50	No	Mountains	---	---	---	---
	Lotuspoint	35	No	Mountains	---	---	---	---
	Cassyhill	5	No	Mountains	---	---	---	---
	McCrosket	5	No	Mountains	---	---	---	---
	Pinecreek	5	No	Mountains	---	---	---	---
9617:								
Tekoa gravelly ashy silt loam, 15 to 40 percent slopes	Tekoa	80	No	Mountains	---	---	---	---
	Schumacher	10	No	Mountains	---	---	---	---
	Libertybutte	5	No	Mountains	---	---	---	---
	Cassyhill	3	No	Mountains	---	---	---	---
	Arson, dry	2	No	Mountains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9701:								
Ardenvoir-McCrosket association, 35 to 65 percent slopes	Ardenvoir	55	No	Mountains	---	---	---	---
	McCrosket	25	No	Mountains	---	---	---	---
	Lotuspoint	7	No	Mountains	---	---	---	---
	Ardenvoir, dry	5	No	Mountains	---	---	---	---
	Huckle, dry	5	No	Mountains	---	---	---	---
	Cassyhill	3	No	Mountains	---	---	---	---
9703:								
Ardenvoir, dry-Ardenvoir complex, 35 to 65 percent slopes	Ardenvoir, dry	45	No	Mountains	---	---	---	---
	Ardenvoir	40	No	Mountains	---	---	---	---
	Lotuspoint	5	No	Mountains	---	---	---	---
	McCrosket	5	No	Mountains	---	---	---	---
	Huckle, dry	3	No	Mountains	---	---	---	---
	Cassyhill	2	No	Mountains	---	---	---	---
9704:								
Ardenvoir, dry-Ardenvoir complex, 15 to 35 percent	Ardenvoir, dry	45	No	Mountains	---	---	---	---
	Ardenvoir	40	No	Mountains	---	---	---	---
	Lotuspoint	5	No	Mountains	---	---	---	---
	McCrosket	5	No	Mountains	---	---	---	---
	Arson, dry	3	No	Mountains	---	---	---	---
	Cassyhill	2	No	Mountains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9706:								
Ardenvoir gravelly ashy silt loam, 35 to 65 percent slopes	Ardenvoir	80	No	Mountains	---	---	---	---
	Ardenvoir, dry	5	No	Mountains	---	---	---	---
	Huckle	5	No	Mountains	---	---	---	---
	McCrosket	5	No	Mountains	---	---	---	---
	Saint Maries, dry	5	No	Mountains	---	---	---	---
9707:								
Huckle, dry-Ardenvoir complex, 35 to 65 percent slopes	Huckle, dry	50	No	Mountains	---	---	---	---
	Ardenvoir	35	No	Mountains	---	---	---	---
	Ahrs	5	No	Mountains	---	---	---	---
	Saint Maries, dry	5	No	Mountains	---	---	---	---
	Rasser	3	No	Mountains	---	---	---	---
	Honeyjones,	2	No	Mountains	---	---	---	---
9710:								
McCrosket-Ardenvoir association, 15 to 35 percent slopes	McCrosket	50	No	Mountains, hills	---	---	---	---
	Ardenvoir	30	No	Mountains, hills	---	---	---	---
	Ardenvoir, dry	10	No	Mountains, hills	---	---	---	---
	Lotuspoint	5	No	Mountains, hills	---	---	---	---
	Arson	3	No	Mountains, hills	---	---	---	---
	Tekoa	2	No	Mountains, hills	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9711:								
McCrosket-Ardenvoir association, 35 to 65 percent slopes	McCrosket	50	No	Mountains, hills	---	---	---	---
	Ardenvoir	30	No	Mountains, hills	---	---	---	---
	Lotuspoint	8	No	Mountains, hills	---	---	---	---
	Arson	7	No	Mountains, hills	---	---	---	---
	Huckle, dry	3	No	Mountains, hills	---	---	---	---
	Tekoa	2	No	Mountains, hills	---	---	---	---
9712:								
McCrosket-Tekoa association, 35 to 65 percent slopes	McCrosket	50	No	Mountains, hills	---	---	---	---
	Tekoa	30	No	Mountains, hills	---	---	---	---
	Ardenvoir	10	No	Mountains, hills	---	---	---	---
	Lotuspoint	5	No	Mountains, hills	---	---	---	---
	Cassyhill	3	No	Mountains, hills	---	---	---	---
	Rasser	2	No	Hills, mountains	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9735:								
Lotuspoint stony ashy silt loam, 35 to 65 percent slopes, stony surface	Lotuspoint, stony surface	80	No	Mountains	---	---	---	---
	Cassyhill	8	No	Mountains	---	---	---	---
	Pinecreek	5	No	Mountains	---	---	---	---
	Ardenvoir	3	No	Mountains	---	---	---	---
	Rasser	2	No	Mountains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
9770:								
Pinecreek gravelly ashy silt loam, 30 to 75 percent slopes	Pinecreek	80	No	Mountains	---	---	---	---
	Ahrs	8	No	Mountains	---	---	---	---
	Lotuspoint	5	No	Mountains	---	---	---	---
	Rasser	3	No	Mountains	---	---	---	---
	Cassyhill	2	No	Mountains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---
9775:								
Pinecreek gravelly ashy silt loam, moist, 20 to 65 percent slopes	Pinecreek, moist	80	No	Mountains	---	---	---	---
	Ahrs	8	No	Mountains	---	---	---	---
	Lotuspoint	5	No	Mountains	---	---	---	---
	Rasser	3	No	Mountains	---	---	---	---
	Honeyjones,	2	No	Mountains	---	---	---	---
	Rock outcrop	2	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
9776:								
Cassyhill very gravelly ashy silt loam, 35 to 65 percent slopes	Cassyhill	80	No	Mountains	---	---	---	---
	Lotuspoint, stony surface	10	No	Mountains	---	---	---	---
	Ardenvoir, dry	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
9778:								
Cassyhill-Lotuspoint complex, 5 to 30 percent slopes	Cassyhill	50	No	Mountains	---	---	---	---
	Lotuspoint	35	No	Mountains	---	---	---	---
	Ardenvoir, dry	5	No	Mountains	---	---	---	---
	Pinecreek	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---
9782:								
Ardenvoir, dry-Cassyhill complex, 35 to 65 percent slopes	Ardenvoir, dry	45	No	Mountains	---	---	---	---
	Cassyhill	35	No	Mountains	---	---	---	---
	Lotuspoint, stony surface	10	No	Mountains	---	---	---	---
	Arson, dry	5	No	Mountains	---	---	---	---
	Rock outcrop	5	No	---	---	---	---	---

Table 11.--Hydric Soil Rating--Continued

Map symbol and map unit name	Component	Percent of map unit	Hydric rating	Landform	Hydric soils criteria			
					Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
W: Water	Water	100	---	---	---	---	---	---

Explanation of hydric criteria codes:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
   - A. are somewhat poorly drained and have a water table at the surface (0 feet) during the growing season, or
   - B. are poorly drained or very poorly drained and have either:
     - 1.) a water table at the surface (0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
     - 2.) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 inches per hour in all layers within a depth of 20 inches, or
     - 3.) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 inches per hour in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.

Table 12.--Engineering Properties

(Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow.)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1001:												
Bridgeson-------	0-12	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-100	20-35	5-10
	12-20	*Silt loam, loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-100	60-85	30-35	10-15
	20-31	*Clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20
	31-40	*Clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20
	40-60	*Clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
Wolfeson--------	0-9	*Ashy very fine sandy loam	*CL-ML, SM	*A-4	0	0	100	90-100	75-95	45-65	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, ashy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, loam, very fine sandy loam, sandy loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, loamy fine sand, fine sandy loam, clay loam, loam	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, fine sandy loam, silty clay loam, clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1001:												
Pywell----------	0-6	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	6-14	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	14-27	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	27-31	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	31-45	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	45-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Endoaquolls-----	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, silt loam, fine sandy loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, silt loam, gravelly fine sandy loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, silt loam, gravelly sandy loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, gravelly coarse sandy loam, very gravelly sandy loam, loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-60	*Stratified sandy loam to fine sandy loam, gravelly coarse sandy loam, very gravelly loamy sand	*SM, SC-SM, GP-GM	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-50	0-20	NP-5
1010:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1010:												
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
Cald------------	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-25
Latah-----------	0-10	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	10-14	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	14-19	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	19-22	*Silt loam, silt	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	22-31	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-25
	31-38	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	38-60	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1010:												
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20
1015:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
Cald------------	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1015:												
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
1020:												
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1020:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Saltese---------	0-5	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	5-12	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	12-16	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	16-24	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	24-40	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	40-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Water.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1021:												
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Saltese---------	0-5	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	5-12	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	12-16	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	16-24	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	24-40	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	40-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1021:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Water.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1030:												
Emdent----------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	6-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	9-13	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	100	80-100	70-98	20-35	NP-10
	13-21	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	80-100	70-98	20-35	NP-10
	21-28	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	80-100	70-98	20-35	NP-10
	28-60	*Ashy silt, ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	85-100	80-100	70-98	20-35	NP-10
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1030:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Saltese---------	0-5	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	5-12	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	12-16	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	16-24	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	24-40	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	40-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
1040:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1040:												
Peone----------	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1050:												
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy fine sandy loam, ashy sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, very gravelly coarse sand, gravelly loamy coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1050:												
Pywell----------	0-6	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	6-14	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	14-27	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	27-31	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	31-45	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	45-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
1070:												
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, silty clay loam, loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, silty clay loam, loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1070:												
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
1080:												
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1080:												
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
1081:												
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1081:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly sandy loam, very gravelly loam, extremely gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
1090:												
Peone-----------	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP
Saltese---------	0-5	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	5-12	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	12-16	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	16-24	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	24-40	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	40-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1090:												
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Peone, drained--	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP
Water.												
1091:												
Peone, drained--	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1091:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Cedonia---------	0-6	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-15
	6-12	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-20
	12-27	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	27-33	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	33-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-7-6, A-4	0	0	95-100	90-100	85-100	80-100	25-45	5-25
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1092:												
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
Bellslake-------	0-6	*Mucky ashy silt loam	*OL	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Stratified mucky ashy silt loam to very fine sandy loam, ashy silt loam, mucky ashy silt loam	*OL, ML	*A-4	0	0	100	100	90-100	80-95	20-35	NP-10
	10-18	*Stratified mucky ashy silt loam to very fine sandy loam	*OL, ML	*A-4	0	0	100	100	90-100	80-95	20-35	NP-10
	18-30	*Mucky silt loam, silt loam, ashy silt loam, mucky ashy silt loam	*CL-ML, OL	*A-4	0	0	100	100	95-100	85-100	0-25	NP-5
	30-48	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	48-55	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	55-65	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Pywell----------	0-6	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	6-14	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	14-27	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	27-31	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	31-45	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	45-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Water.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1120:												
Lovell----------	0-2	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	2-8	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	8-19	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	19-24	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-15
	24-30	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-20
	30-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-25
	42-52	*Silty clay loam, loam, silt loam	*CL	*A-6, A-7	0	0	100	100	85-100	80-100	30-45	15-25
	52-61	*Silty clay loam, loam, silt loam	*CL	*A-7, A-6	0	0	100	100	85-100	80-100	30-45	15-25
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1120:												
Santa----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	9-16	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	16-25	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	25-27	*Silt, silt loam	*CL-ML	*A-4	0	0	100	100	95-100	95-100	20-30	5-10
	27-39	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	25-40	10-20
	39-65	*Silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	90-100	85-100	80-100	35-45	10-20
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1130:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1130:												
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy loam, ashy silt loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy loam, ashy sandy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, loam, gravelly sandy loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, very gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Wolfeson--------	0-9	*Ashy very fine sandy loam	*CL-ML, SM	*A-4	0	0	100	90-100	75-95	45-65	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, ashy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, loam, very fine sandy loam, sandy loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, loamy fine sand, fine sandy loam, clay loam, loam	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, fine sandy loam, silty clay loam, clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1200:												
Endoaquolls-----	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, silt loam, fine sandy loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, silt loam, gravelly fine sandy loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, silt loam, gravelly sandy loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, gravelly coarse sandy loam, very gravelly sandy loam, loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-60	*Stratified sandy loam to fine sandy loam, gravelly coarse sandy loam, very gravelly loamy sand	*SM, SC-SM, GP-GM	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-50	0-20	NP-5
Fluvaquents-----	0-1	*Sandy loam	*SM, SC-SM	*A-2, A-1, A-4	0	0	90-100	85-100	50-70	25-40	0-25	NP-5
	1-4	*Sand, loam, sandy loam	*SP-SM, CL-ML	*A-3, A-4, A-1	0	0	80-100	75-100	40-95	5-75	0-25	NP-5
	4-12	*Sandy loam, gravelly fine sandy loam, very gravelly coarse sand	*SM, GP-GM, CL-ML	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	12-21	*Sandy loam, very gravelly coarse sand, gravelly fine sandy loam	*SM, GP-GM, CL-ML	*A-1, A-4	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	21-31	*Sandy loam, very gravelly coarse sand, gravelly fine sandy loam	*SM, GP-GM, CL-ML	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	31-40	*Stratified fine sandy loam to coarse sand, very gravelly coarse sand, gravelly fine sandy loam	*SM, GP-GM, CL-ML	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	40-60	*Stratified coarse sand to sandy loam, gravelly sandy loam, very gravelly coarse sand	*SM, CL-ML, GP-GM	*A-1, A-4	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1200:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Saltese---------	0-5	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	5-12	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	12-16	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	16-24	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	24-40	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	40-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Water.												
1203:												
Haploxerolls, channeled------	0-4	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	75-100	60-100	20-35	NP-10
	4-14	*Ashy silt loam, silt loam, loam, ashy fine sandy loam	*ML, SM	*A-4, A-2	0	0	80-100	75-100	55-100	35-100	20-35	NP-10
	14-30	*Ashy silt loam, ashy fine sandy loam, gravelly sandy loam	*ML, GM	*A-4, A-1	0	0-20	55-100	50-100	35-100	20-100	20-35	NP-10
	30-40	*Silt loam, loam, gravelly sandy loam, fine sandy loam	*CL-ML, GM	*A-4, A-1	0	0-20	60-100	55-100	35-100	20-100	0-30	NP-10
	40-57	*Silt loam, fine sandy loam, gravelly sandy loam	*CL-ML, GM	*A-4, A-1	0	0-20	60-100	55-100	35-100	20-100	0-30	NP-10
	57-60	*Fine sandy loam, loam, gravelly sandy loam	*SM, GM	*A-4, A-1	0	0-20	60-100	55-100	35-100	20-75	0-20	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1203:												
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
Endoaquolls-----	0-5	*Loam	*CL-ML, CL, SM	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, fine sandy loam, silt loam	*CL-ML, CL, SM	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, gravelly fine sandy loam, silt loam, loam	*SM, CL	*A-2, A-4, A-1	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, gravelly sandy loam, silt loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, loam, gravelly coarse sandy loam, very gravelly sandy loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-60	*Stratified sandy loam to fine sandy loam, gravelly coarse sandy loam, very gravelly loamy sand	*SM, SC-SM, GP-GM	*A-2, A-1, A-4	0	0-25	35-100	30-100	15-85	5-50	0-20	NP-5
Riverwash-------	0-60	---	---	---	---	---	---	---	---	---	---	---
Water.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1300:												
Aquepts, frigid	0-4	*Ashy loam	*ML	*A-4	0	0	85-100	80-100	65-95	50-75	20-35	NP-10
	4-12	*Ashy loam, ashy sandy loam	*ML	*A-4	0	0	85-100	80-100	45-95	25-75	20-35	NP-10
	12-17	*Ashy loam, ashy sandy loam	*ML	*A-4	0	0	85-100	80-100	45-95	25-75	20-35	NP-10
	17-27	*Sandy loam, loam	*SC-SM	*A-2	0	0	85-100	80-100	45-95	25-75	0-25	NP-5
	27-40	*Loamy sand, cobbly coarse sand, very gravelly loamy coarse sand	*SM	*A-1, A-3	0	0-15	55-100	50-90	25-70	0-25	0-10	NP
	40-50	*Gravelly loamy coarse sand, very gravelly coarse sand, cobbly loamy sand	*SM	*A-1, A-2	0	0-15	50-95	45-90	25-70	0-25	0-10	NP
	50-60	*Very gravelly coarse sand, gravelly loamy coarse sand, cobbly loamy sand	*GP-GM	*A-1, A-2	0	0-15	50-95	45-90	25-70	0-25	0-10	NP
Lovell----------	0-2	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	2-8	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	8-19	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	19-24	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-15
	24-30	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-20
	30-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-25
	42-52	*Silty clay loam, loam, silt loam	*CL	*A-6, A-7	0	0	100	100	85-100	80-100	30-45	15-25
	52-61	*Silty clay loam, loam, silt loam	*CL	*A-7, A-6	0	0	100	100	85-100	80-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1300:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
1300:												
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Pywell----------	0-6	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	6-14	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	14-27	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	27-31	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	31-45	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	45-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Water.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2040:												
Klickson, mass wasted---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Blinn, stony surface--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-6	*Ashy silt loam	*CL-ML, ML	*A-4	0-10	0-10	80-95	75-95	70-85	55-75	20-30	NP-10
	6-12	*Stony ashy silt loam, gravelly silt loam, cobbly silt loam	*CL-ML, ML	*A-4	0-20	0-20	75-90	70-85	65-80	50-65	20-30	NP-10
	12-24	*Stony loam, cobbly loam	*CL, CL-ML	*A-4	10-25	10-25	80-90	75-85	70-80	50-70	25-30	5-10
	24-39	*Very stony loam, extremely stony loam, very cobbly loam	*GC-GM	*A-4	25-55	10-45	50-70	45-65	40-60	35-50	20-30	5-10
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2040: Xerolls, frigid, mass wasted---------	0-4	*Silt loam	*ML, CL-ML, CL	*A-7, A-4	0	0	85-100	80-100	70-100	55-90	25-45	5-20
	4-9	*Silt loam, gravelly loam, ashy silt loam	*CL, GC-GM	*A-7, A-4	0	0	70-100	65-100	55-100	45-90	25-45	5-20
	9-16	*Silty clay loam, cobbly silt loam, loam, clay loam, very gravelly sandy clay loam	*CL, GC, CH	*A-7, A-2	0	0-15	55-100	50-100	45-100	20-95	30-50	10-30
	16-24	*Loamy sand, loam, extremely gravelly loam, very gravelly coarse sandy loam, extremely cobbly loam	*SM, GP, CL-ML	*A-2, A-1, A-4	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
	24-60	*Loamy sand, loam, extremely gravelly loam, extremely cobbly loam, very gravelly coarse sandy loam	*SM, GP, CL-ML	*A-2, A-4, A-1	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2040:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
2041:												
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2041:												
Lacy----------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Blinn, stony surface--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-6	*Ashy silt loam	*CL-ML, ML	*A-4	0-10	0-10	80-95	75-95	70-85	55-75	20-30	NP-10
	6-12	*Stony ashy silt loam, gravelly silt loam, cobbly silt loam	*CL-ML, ML	*A-4	0-20	0-20	75-90	70-85	65-80	50-65	20-30	NP-10
	12-24	*Stony loam, cobbly loam	*CL, CL-ML	*A-4	10-25	10-25	80-90	75-85	70-80	50-70	25-30	5-10
	24-39	*Very stony loam, extremely stony loam, very cobbly loam	*GC-GM	*A-4	25-55	10-45	50-70	45-65	40-60	35-50	20-30	5-10
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2041: Xerolls, frigid, mass wasted---------	0-4	*Silt loam	*ML, CL-ML, CL	*A-7, A-4	0	0	85-100	80-100	70-100	55-90	25-45	5-20
	4-9	*Silt loam, gravelly loam, ashy silt loam	*CL, GC-GM	*A-7, A-4	0	0	70-100	65-100	55-100	45-90	25-45	5-20
	9-16	*Silty clay loam, cobbly silt loam, loam, clay loam, very gravelly sandy clay loam	*CL, GC, CH	*A-7, A-2	0	0-15	55-100	50-100	45-100	20-95	30-50	10-30
	16-24	*Loamy sand, loam, extremely gravelly loam, very gravelly coarse sandy loam, extremely cobbly loam	*SM, GP, CL-ML	*A-2, A-1, A-4	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
	24-60	*Loamy sand, loam, extremely gravelly loam, extremely cobbly loam, very gravelly coarse sandy loam	*SM, GP, CL-ML	*A-2, A-4, A-1	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
2042: Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2042:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2043:												
Klickson, mass wasted---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Speigle, mass wasted---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	0-40	35-65	30-60	25-55	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2043:												
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2043: Xerolls, frigid, mass wasted---------	0-4	*Silt loam	*ML, CL-ML, CL	*A-7, A-4	0	0	85-100	80-100	70-100	55-90	25-45	5-20
	4-9	*Silt loam, gravelly loam, ashy silt loam	*CL, GC-GM	*A-7, A-4	0	0	70-100	65-100	55-100	45-90	25-45	5-20
	9-16	*Silty clay loam, cobbly silt loam, loam, clay loam, very gravelly sandy clay loam	*CL, GC, CH	*A-7, A-2	0	0-15	55-100	50-100	45-100	20-95	30-50	10-30
	16-24	*Loamy sand, loam, extremely gravelly loam, very gravelly coarse sandy loam, extremely cobbly loam	*SM, GP, CL-ML	*A-2, A-1, A-4	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
	24-60	*Loamy sand, loam, extremely gravelly loam, extremely cobbly loam, very gravelly coarse sandy loam	*SM, GP, CL-ML	*A-2, A-4, A-1	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy silt loam, ashy fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, silty clay loam, loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2043:												
Lacy----------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
2044:												
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2044:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2044:												
Spens	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Rock outcrop	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---
2045:												
Marble, mass wasted	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, loamy coarse sand, coarse sand, loamy sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, loamy sand, coarse sand, loamy coarse sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2045:												
Speigle, mass wasted---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	0-40	35-65	30-60	25-55	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Spens----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2045:												
Klickson, mass wasted---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
2046:												
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2046:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2050:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2050:												
Lacy----------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
2051:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Spens----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2051:												
Lacy----------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2052:												
Brincken, moist, mass wasted---------	0-7	*Ashy silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, SC-SM, CL	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, SC-SM, CL	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, SM, CL	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Speigle, mass wasted---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	0-40	35-65	30-60	25-55	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2052:												
Gibbs----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML	*A-4	0	0	95-100	90-100	90-100	70-90	20-35	5-10
	5-13	*Ashy silt loam, ashy loam	*CL-ML	*A-4	0	0	95-100	90-100	85-100	65-90	20-35	5-10
	13-20	*Silty clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	55-85	25-35	10-15
	20-31	*Silty clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	75-90	55-85	25-35	10-15
	31-35	*Very gravelly silt loam, very gravelly loam, very cobbly silty clay loam	*GC	*A-6, A-2	0	0-40	40-60	35-55	35-50	25-50	25-35	10-15
	35-45	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Klickson, mass wasted---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2052:												
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
2053:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2053:												
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2053:												
Spens	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
2054:												
Speigle	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly silt loam, very gravelly loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly loam, very cobbly silt loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very cobbly loam, very gravelly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very cobbly loam, very gravelly sandy loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Rubble land	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---
Rock outcrop	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2054:												
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly loam, extremely cobbly clay loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2070:												
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Gibbs-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML	*A-4	0	0	95-100	90-100	90-100	70-90	20-35	5-10
	5-13	*Ashy silt loam, ashy loam	*CL-ML	*A-4	0	0	95-100	90-100	85-100	65-90	20-35	5-10
	13-20	*Silty clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	55-85	25-35	10-15
	20-31	*Silty clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	75-90	55-85	25-35	10-15
	31-35	*Very gravelly silt loam, very gravelly loam, very cobbly silty clay loam	*GC	*A-6, A-2	0	0-40	40-60	35-55	35-50	25-50	25-35	10-15
	35-45	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2070:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2070:												
Stutler---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	55-90	---	---
	1-5	*Gravelly ashy silt loam	*GC-GM, GM	*A-4	0	0-10	65-80	60-75	55-70	40-65	20-35	NP-10
	5-12	*Gravelly ashy silt loam, very gravelly ashy silt loam, gravelly ashy loam, very gravelly ashy loam	*GC-GM, GM	*A-4, A-2	0	0-25	50-65	45-60	40-60	30-55	20-35	NP-10
	12-22	*Very cobbly silt loam, very gravelly loam, extremely cobbly sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GW-GM	*A-2, A-4, A-1	0-15	25-50	35-70	30-65	15-55	10-45	15-30	NP-10
	22-32	*Extremely cobbly loam, very gravelly loam, extremely gravelly sandy loam, very cobbly sandy loam	*GP-GC, GP-GM	*A-1, A-4	0-15	25-50	25-70	20-65	10-55	5-45	15-30	NP-10
	32-42	*Extremely gravelly coarse sandy loam, extremely gravelly loam, very cobbly sandy loam, extremely cobbly coarse sandy loam	*GP-GM, GP	*A-1, A-4	0-15	15-55	15-65	10-55	10-50	0-40	15-30	NP-10
	42-61	*Extremely gravelly loamy coarse sand, extremely cobbly coarse sand, very gravelly coarse sand, very cobbly sand, extremely gravelly loamy coarse sand	*GP	*A-1	0-25	10-55	15-60	10-55	5-45	0-5	0-20	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2071:												
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2071:												
Gibbs	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML	*A-4	0	0	95-100	90-100	90-100	70-90	20-35	5-10
	5-13	*Ashy silt loam, ashy loam	*CL-ML	*A-4	0	0	95-100	90-100	85-100	65-90	20-35	5-10
	13-20	*Silty clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	55-85	25-35	10-15
	20-31	*Silty clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	75-90	55-85	25-35	10-15
	31-35	*Very gravelly silt loam, very gravelly loam, very cobbly silty clay loam	*GC	*A-6, A-2	0	0-40	40-60	35-55	35-50	25-50	25-35	10-15
	35-45	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lacy	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
2080:												
Gibbs	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML	*A-4	0	0	95-100	90-100	90-100	70-90	20-35	5-10
	5-13	*Ashy silt loam, ashy loam	*CL-ML	*A-4	0	0	95-100	90-100	85-100	65-90	20-35	5-10
	13-20	*Silty clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	55-85	25-35	10-15
	20-31	*Silty clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	90-100	85-100	75-90	55-85	25-35	10-15
	31-35	*Very gravelly silt loam, very cobbly silty clay loam, very gravelly loam	*GC	*A-6, A-2	0	0-40	40-60	35-55	35-50	25-50	25-35	10-15
	35-45	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2080:												
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2080:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
2081:												
Gibbs-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML	*A-4	0	0	95-100	90-100	90-100	70-90	20-35	5-10
	5-13	*Ashy silt loam, ashy loam	*CL-ML	*A-4	0	0	95-100	90-100	85-100	65-90	20-35	5-10
	13-20	*Silty clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	55-85	25-35	10-15
	20-31	*Silty clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	75-90	55-85	25-35	10-15
	31-35	*Very gravelly silt loam, very gravelly loam, very cobbly silty clay loam	*GC	*A-6, A-2	0	0-40	40-60	35-55	35-50	25-50	25-35	10-15
	35-45	*Bedrock	---	---	---	---	---	---	---	---	---	---
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2081:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, SC-SM, CL	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, SC-SM, CL	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, SM, CL	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2081:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lacy------------	0-2	*Cobbly loam	*CL, GC-GM	*A-4	0-10	15-40	65-85	60-80	50-75	35-60	25-32	7-13
	2-6	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-5	25-70	50-70	45-65	40-65	30-50	30-40	10-15
	6-10	*Extremely cobbly loam, very cobbly loam	*GC	*A-2	0-15	35-65	50-70	45-65	35-55	25-45	30-40	10-15
	10-16	*Extremely stony loam, extremely cobbly clay loam, extremely cobbly loam	*GC	*A-2	0-45	30-85	35-55	30-50	25-45	25-40	30-40	10-20
	16-26	*Bedrock	---	---	---	---	---	---	---	---	---	---
2085:												
Tucannon--------	0-5	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-100	55-90	25-35	5-15
	5-10	*Ashy silt loam, ashy loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-95	50-85	25-35	5-15
	10-21	*Gravelly ashy silt loam, silt loam, loam, ashy loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	21-29	*Gravelly silt loam, loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	29-39	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2085:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2085:												
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
2090:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tucannon--------	0-5	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-100	55-90	25-35	5-15
	5-10	*Ashy silt loam, ashy loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-95	50-85	25-35	5-15
	10-21	*Gravelly ashy silt loam, silt loam, loam, ashy loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	21-29	*Gravelly silt loam, loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	29-39	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2090:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2160:												
Scoap----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy sandy loam	*SM	*A-1, A-2	0	0-10	60-80	55-75	35-45	15-30	20-30	NP-5
	7-17	*Very gravelly ashy sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0-10	50-65	45-60	30-40	15-25	20-30	NP-5
	17-30	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	0	0-40	40-55	35-50	20-30	10-20	15-25	NP-5
	30-47	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	0	10-35	40-55	35-50	20-30	10-20	15-25	NP-5
	47-60	*Gravelly loamy sand, very cobbly sandy loam, very gravelly sandy loam	*SP-SM, SM, GP-GM	*A-1	0-10	0-30	50-75	45-70	30-50	5-20	0-0	NP
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2160:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, very gravelly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
2160:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, extremely gravelly sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3010:												
Alecanyon, very stony surface--	0-7	*Cobbly ashy coarse sandy loam	*SM	*A-2, A-1	0	25-30	75-95	70-90	50-60	25-35	0-10	NP-5
	7-11	*Very cobbly ashy coarse sandy loam, very gravelly ashy coarse sandy loam	*GM, GP-GM	*A-1	0	40-45	50-65	45-60	30-40	10-25	0-10	NP-5
	11-16	*Extremely cobbly loamy coarse sand, very gravelly coarse sandy loam, very cobbly coarse sandy loam	*GP-GM	*A-1	0-10	25-55	45-55	40-50	25-35	5-15	0-20	NP-5
	16-39	*Extremely cobbly coarse sand, very cobbly coarse sand, extremely gravelly loamy coarse sand, extremely stony loamy coarse sand	*GP-GM	*A-1	0-40	40-65	40-50	35-45	20-30	5-10	0-0	NP
	39-60	*Very gravelly coarse sand, extremely stony coarse sand, extremely cobbly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0-40	15-65	30-50	25-45	15-30	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3010:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3015:												
Seaboldt, dry---	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3015:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3015:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Narcisse	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Rock outcrop	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3020:												
Bong	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3020:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Phoebe, dry-----	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3020:												
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
3022:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Hagen----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3022:												
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
3024:												
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3024:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3025:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3025:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
3026:												
Phoebe, dry-----	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Bong------------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3026:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
3030:												
Bonner----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-5	*Ashy fine sandy loam	*SM	*A-4	0	0	80-90	75-85	65-75	40-50	20-30	NP-5
	5-9	*Ashy fine sandy loam	*SM	*A-4, A-2	0	0-10	70-90	65-85	45-70	35-45	20-30	NP-5
	9-19	*Ashy fine sandy loam, gravelly ashy coarse sandy loam, ashy sandy loam	*SM, GM	*A-2, A-1, A-4	0	0-10	55-90	50-85	30-70	20-50	20-30	NP-5
	19-27	*Very gravelly loamy sand, gravelly loamy sand	*GP-GM, GM	*A-1	0	0-10	45-65	40-60	20-35	5-20	0-0	NP
	27-60	*Extremely gravelly coarse sand, very gravelly loamy coarse sand	*GW, GP-GM, GP	*A-1	0-10	10-25	15-45	10-40	5-30	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3030:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Stien, very stony surface--	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Ashy silt loam	*ML	*A-4	0-5	0-5	90-100	85-100	70-95	55-85	30-40	NP-5
	3-8	*Ashy silt loam, gravelly ashy silt loam	*ML	*A-4	0-5	0-10	60-85	55-85	50-80	50-70	30-40	NP-5
	8-16	*Ashy silt loam, ashy very fine sandy loam, gravelly ashy silt loam	*ML, GM	*A-4, A-2	0-5	0-10	50-85	45-85	40-80	30-60	30-40	NP-5
	16-24	*Very stony ashy silt loam, very cobbly ashy silt loam, very gravelly ashy silt loam	*ML, GM	*A-4, A-1	0-40	0-25	50-80	45-75	40-70	25-60	30-40	NP-5
	24-31	*Very cobbly very fine sandy loam, very stony loam, very stony sandy loam	*SM	*A-2, A-4, A-1	15-40	15-35	65-85	60-80	40-60	25-45	15-25	1-5
	31-48	*Very gravelly loamy sand, very cobbly loamy sand, extremely stony loamy sand	*GP-GM	*A-1	10-30	15-50	40-65	35-60	20-35	5-15	15-20	1-5
	48-60	*Extremely gravelly coarse sand, extremely cobbly coarse sand	*GP-GM, GW	*A-1	0-25	0-30	30-45	25-40	15-20	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3030:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3030:												
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Colburn----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3031:												
Bonner----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-5	*Ashy fine sandy loam	*SM	*A-4	0	0	80-90	75-85	65-75	40-50	20-30	NP-5
	5-9	*Ashy fine sandy loam	*SM	*A-4, A-2	0	0-10	70-90	65-85	45-70	35-45	20-30	NP-5
	9-19	*Ashy fine sandy loam, gravelly ashy coarse sandy loam, ashy sandy loam	*SM, GM	*A-2, A-1, A-4	0	0-10	55-90	50-85	30-70	20-50	20-30	NP-5
	19-27	*Very gravelly loamy sand, gravelly loamy sand	*GP-GM, GM	*A-1	0	0-10	45-65	40-60	20-35	5-20	0-0	NP
	27-60	*Extremely gravelly coarse sand, very gravelly loamy coarse sand	*GW, GP-GM, GP	*A-1	0-10	10-25	15-45	10-40	5-30	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3031:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3031:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Stien, very stony surface--	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Ashy silt loam	*ML	*A-4	0-5	0-5	90-100	85-100	70-95	55-85	30-40	NP-5
	3-8	*Ashy silt loam, gravelly ashy silt loam	*ML	*A-4	0-5	0-10	60-85	55-85	50-80	50-70	30-40	NP-5
	8-16	*Ashy silt loam, ashy very fine sandy loam, gravelly ashy silt loam	*ML, GM	*A-4, A-2	0-5	0-10	50-85	45-85	40-80	30-60	30-40	NP-5
	16-24	*Very stony ashy silt loam, very cobbly ashy silt loam, very gravelly ashy silt loam	*ML, GM	*A-4, A-1	0-40	0-25	50-80	45-75	40-70	25-60	30-40	NP-5
	24-31	*Very cobbly very fine sandy loam, very stony loam, very stony sandy loam	*SM	*A-2, A-4, A-1	15-40	15-35	65-85	60-80	40-60	25-45	15-25	1-5
	31-48	*Very gravelly loamy sand, very cobbly loamy sand, extremely stony loamy sand	*GP-GM	*A-1	10-30	15-50	40-65	35-60	20-35	5-15	15-20	1-5
	48-60	*Extremely gravelly coarse sand, extremely cobbly coarse sand	*GP-GM, GW	*A-1	0-25	0-30	30-45	25-40	15-20	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3031:												
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
3039:												
Alecanyon-------	0-7	*Gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	10-15	65-85	60-80	40-60	15-30	0-10	NP-10
	7-11	*Very gravelly ashy coarse sandy loam, very cobbly ashy coarse sandy loam	*GC-GM, GW-GM	*A-1, A-2	0	10-45	45-65	40-60	25-40	10-25	0-10	NP-10
	11-16	*Extremely cobbly loamy coarse sand, extremely gravelly coarse sandy loam, very cobbly coarse sandy loam	*GP-GM GW-GM, GC-GM	*A-1	0-10	10-40	30-60	25-55	15-40	5-25	0-20	NP-5
	16-39	*Extremely gravelly coarse sand, very cobbly loamy coarse sand, extremely gravelly loamy coarse sand	*GW-GM, GM, GP	*A-1	0-35	10-45	20-60	15-55	5-40	0-15	0-10	NP
	39-60	*Very gravelly coarse sand, extremely cobbly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GP, GM	*A-1	0-35	10-45	20-60	15-55	5-40	0-15	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3039:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Deno------------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-90	65-85	20-35	NP-5
	4-14	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	85-100	80-100	65-85	50-80	20-35	NP-5
	14-28	*Ashy loam, ashy silt loam, gravelly ashy loam	*ML	*A-4	0	0	75-100	70-100	65-85	50-80	20-35	NP-5
	28-40	*Loam, silt loam, gravelly loam	*ML	*A-4	0	0	70-100	65-100	55-85	40-70	20-30	NP-5
	40-48	*Coarse sandy loam, gravelly coarse sandy loam, sandy loam	*SM	*A-2, A-4	0	0	70-100	65-100	40-60	20-40	20-30	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3039:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3040:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Alecanyon-------	0-7	*Gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	10-15	65-85	60-80	40-60	15-30	0-10	NP-10
	7-11	*Very gravelly ashy coarse sandy loam, very cobbly ashy coarse sandy loam	*GC-GM, GW-GM	*A-1, A-2	0	10-45	45-65	40-60	25-40	10-25	0-10	NP-10
	11-16	*Extremely cobbly loamy coarse sand, extremely gravelly coarse sandy loam, very cobbly coarse sandy loam	*GP-GM GW-GM, GC-GM	*A-1	0-10	10-40	30-60	25-55	15-40	5-25	0-20	NP-5
	16-39	*Extremely gravelly coarse sand, very cobbly loamy coarse sand, extremely gravelly loamy coarse sand	*GW-GM, GM, GP	*A-1	0-35	10-45	20-60	15-55	5-40	0-15	0-10	NP
	39-60	*Very gravelly coarse sand, extremely cobbly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GP, GM	*A-1	0-35	10-45	20-60	15-55	5-40	0-15	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3040:												
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Uhlig----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3041:												
Alecanyon, very stony surface--	0-7	*Cobbly ashy coarse sandy loam	*SM	*A-2, A-1	0	25-30	75-95	70-90	50-60	25-35	0-10	NP-5
	7-11	*Very cobbly ashy coarse sandy loam, very gravelly ashy coarse sandy loam	*GM, GP-GM	*A-1	0	40-45	50-65	45-60	30-40	10-25	0-10	NP-5
	11-16	*Extremely cobbly loamy coarse sand, very gravelly coarse sandy loam, very cobbly coarse sandy loam	*GP-GM	*A-1	0-10	25-55	45-55	40-50	25-35	5-15	0-20	NP-5
	16-39	*Extremely cobbly coarse sand, very cobbly coarse sand, extremely gravelly loamy coarse sand, extremely stony loamy coarse sand	*GP-GM	*A-1	0-40	40-65	40-50	35-45	20-30	5-10	0-0	NP
	39-60	*Very gravelly coarse sand, extremely stony coarse sand, extremely cobbly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0-40	15-65	30-50	25-45	15-30	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3041:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3042:												
Alecanyon, very stony surface--	0-7	*Cobbly ashy coarse sandy loam	*SM	*A-2, A-1	0	25-30	75-95	70-90	50-60	25-35	0-10	NP-5
	7-11	*Very cobbly ashy coarse sandy loam, very gravelly ashy coarse sandy loam	*GM, GP-GM	*A-1	0	40-45	50-65	45-60	30-40	10-25	0-10	NP-5
	11-16	*Extremely cobbly loamy coarse sand, very gravelly coarse sandy loam, very cobbly coarse sandy loam	*GP-GM	*A-1	0-10	25-55	45-55	40-50	25-35	5-15	0-20	NP-5
	16-39	*Extremely cobbly coarse sand, very cobbly coarse sand, extremely gravelly loamy coarse sand, extremely stony loamy coarse sand	*GP-GM	*A-1	0-40	40-65	40-50	35-45	20-30	5-10	0-0	NP
	39-60	*Very gravelly coarse sand, extremely stony coarse sand, extremely cobbly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0-40	15-65	30-50	25-45	15-30	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3042:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tucannon--------	0-5	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-100	55-90	25-35	5-15
	5-10	*Ashy silt loam, ashy loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-95	50-85	25-35	5-15
	10-21	*Gravelly ashy silt loam, silt loam, loam, ashy loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	21-29	*Gravelly silt loam, loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	29-39	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3042:												
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
3044:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3044:												
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Alecanyon-------	0-7	*Gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	10-15	65-85	60-80	40-60	15-30	0-10	NP-10
	7-11	*Very gravelly ashy coarse sandy loam, very cobbly ashy coarse sandy loam	*GC-GM, GW-GM	*A-1, A-2	0	10-45	45-65	40-60	25-40	10-25	0-10	NP-10
	11-16	*Extremely cobbly loamy coarse sand, extremely gravelly coarse sandy loam, very cobbly coarse sandy loam	*GP-GM GW-GM, GC-GM	*A-1	0-10	10-40	30-60	25-55	15-40	5-25	0-20	NP-5
	16-39	*Extremely gravelly coarse sand, very cobbly loamy coarse sand, extremely gravelly loamy coarse sand	*GW-GM, GM, GP	*A-1	0-35	10-45	20-60	15-55	5-40	0-15	0-10	NP
	39-60	*Very gravelly coarse sand, extremely cobbly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GP, GM	*A-1	0-35	10-45	20-60	15-55	5-40	0-15	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3044:												
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Seaboldt, dry---	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Uhlig-----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3045:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Deno------------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-90	65-85	20-35	NP-5
	4-14	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	85-100	80-100	65-85	50-80	20-35	NP-5
	14-28	*Ashy loam, ashy silt loam, gravelly ashy loam	*ML	*A-4	0	0	75-100	70-100	65-85	50-80	20-35	NP-5
	28-40	*Loam, silt loam, gravelly loam	*ML	*A-4	0	0	70-100	65-100	55-85	40-70	20-30	NP-5
	40-48	*Coarse sandy loam, gravelly coarse sandy loam, sandy loam	*SM	*A-2, A-4	0	0	70-100	65-100	40-60	20-40	20-30	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3045:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Seaboldt, dry---	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3046:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Seaboldt, dry---	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3046:												
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, loam, gravelly loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, very gravelly silt loam, extremely gravelly loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3047:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Deno------------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-90	65-85	20-35	NP-5
	4-14	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	85-100	80-100	65-85	50-80	20-35	NP-5
	14-28	*Ashy loam, gravelly ashy loam, ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-85	50-80	20-35	NP-5
	28-40	*Loam, silt loam, gravelly loam	*ML	*A-4	0	0	70-100	65-100	55-85	40-70	20-30	NP-5
	40-48	*Coarse sandy loam, sandy loam, gravelly coarse sandy loam	*SM	*A-2, A-4	0	0	70-100	65-100	40-60	20-40	20-30	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop, cliffs---------	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3047:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy very fine sandy loam, ashy silt	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3047:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly silt loam, very gravelly loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly loam, very cobbly silt loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very cobbly loam, very gravelly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very cobbly loam, very gravelly sandy loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
3048:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy very fine sandy loam, ashy silt	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3048:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, loam, gravelly loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, very gravelly silt loam, extremely gravelly loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3048:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Water.												
3049:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3049:												
Rock outcrop, cliffs---------	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Deno------------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-90	65-85	20-35	NP-5
	4-14	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	85-100	80-100	65-85	50-80	20-35	NP-5
	14-28	*Ashy loam, gravelly ashy loam, ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-85	50-80	20-35	NP-5
	28-40	*Loam, silt loam, gravelly loam	*ML	*A-4	0	0	70-100	65-100	55-85	40-70	20-30	NP-5
	40-48	*Coarse sandy loam, sandy loam, gravelly coarse sandy loam	*SM	*A-2, A-4	0	0	70-100	65-100	40-60	20-40	20-30	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3049:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly silt loam, very gravelly loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly loam, very cobbly silt loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very cobbly loam, very gravelly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very cobbly loam, very gravelly sandy loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Water.												
3054:												
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3054:												
Clayton, silty subsoil--------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Silt loam, silty clay loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	80-95	20-35	5-15
Hagen----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
Phoebe, dry-----	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3055:												
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Hagen-----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
Clayton, silty subsoil--------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Silt loam, silty clay loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	80-95	20-35	5-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3055:												
Endoaquolls-----	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, silt loam, fine sandy loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, silt loam, gravelly fine sandy loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, silt loam, gravelly sandy loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, gravelly coarse sandy loam, very gravelly sandy loam, loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-60	*Stratified sandy loam to fine sandy loam, gravelly coarse sandy loam, very gravelly loamy sand	*SM, SC-SM, GP-GM	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-50	0-20	NP-5
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
3056:												
Hagen-----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3056:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3056:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
3057:												
Hagen-----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3057:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3057:												
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
3060:												
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3060:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3060:												
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
3061:												
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3061:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3061:												
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Endoaquolls-----	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, fine sandy loam, silt loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, gravelly fine sandy loam, silt loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, gravelly sandy loam, silt loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, loam, gravelly coarse sandy loam, very gravelly sandy loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-60	*Stratified sandy loam to fine sandy loam, gravelly coarse sandy loam, very gravelly loamy sand	*SM, SC-SM, GP-GM	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-50	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3062:												
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	58-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3062:												
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	10-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	10-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3070:												
Eloika---	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Kaniksu---	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP
Scrabblers---	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3070:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3070:												
Stien, very stony surface--	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Ashy silt loam	*ML	*A-4	0-5	0-5	90-100	85-100	70-95	55-85	30-40	NP-5
	3-8	*Ashy silt loam, gravelly ashy silt loam	*ML	*A-4	0-5	0-10	60-85	55-85	50-80	50-70	30-40	NP-5
	8-16	*Ashy silt loam, ashy very fine sandy loam, gravelly ashy silt loam	*ML, GM	*A-4, A-2	0-5	0-10	50-85	45-85	40-80	30-60	30-40	NP-5
	16-24	*Very stony ashy silt loam, very cobbly ashy silt loam, very gravelly ashy silt loam	*ML, GM	*A-4, A-1	0-40	0-25	50-80	45-75	40-70	25-60	30-40	NP-5
	24-31	*Very cobbly very fine sandy loam, very stony loam, very stony sandy loam	*SM	*A-2, A-4, A-1	15-40	15-35	65-85	60-80	40-60	25-45	15-25	1-5
	31-48	*Very gravelly loamy sand, very cobbly loamy sand, extremely stony loamy sand	*GP-GM	*A-1	10-30	15-50	40-65	35-60	20-35	5-15	15-20	1-5
	48-60	*Extremely gravelly coarse sand, extremely cobbly coarse sand	*GP-GM, GW	*A-1	0-25	0-30	30-45	25-40	15-20	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3070:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3071:												
Stien, very stony surface--	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Ashy silt loam	*ML	*A-4	0-5	0-5	90-100	85-100	70-95	55-85	30-40	NP-5
	3-8	*Ashy silt loam, gravelly ashy silt loam	*ML	*A-4	0-5	0-10	60-85	55-85	50-80	50-70	30-40	NP-5
	8-16	*Ashy silt loam, ashy very fine sandy loam, gravelly ashy silt loam	*ML, GM	*A-4, A-2	0-5	0-10	50-85	45-85	40-80	30-60	30-40	NP-5
	16-24	*Very stony ashy silt loam, very cobbly ashy silt loam, very gravelly ashy silt loam	*ML, GM	*A-4, A-1	0-40	0-25	50-80	45-75	40-70	25-60	30-40	NP-5
	24-31	*Very cobbly very fine sandy loam, very stony loam, very stony sandy loam	*SM	*A-2, A-4, A-1	15-40	15-35	65-85	60-80	40-60	25-45	15-25	1-5
	31-48	*Very gravelly loamy sand, very cobbly loamy sand, extremely stony loamy sand	*GP-GM	*A-1	10-30	15-50	40-65	35-60	20-35	5-15	15-20	1-5
	48-60	*Extremely gravelly coarse sand, extremely cobbly coarse sand	*GP-GM, GW	*A-1	0-25	0-30	30-45	25-40	15-20	0-10	0-0	NP
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3071:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, extremely gravelly sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3071:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3071:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3072:												
Stien, very stony surface--	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Ashy silt loam	*ML	*A-4	0-5	0-5	90-100	85-100	70-95	55-85	30-40	NP-5
	3-8	*Ashy silt loam, gravelly ashy silt loam	*ML	*A-4	0-5	0-10	60-85	55-85	50-80	50-70	30-40	NP-5
	8-16	*Ashy silt loam, ashy very fine sandy loam, gravelly ashy silt loam	*ML, GM	*A-4, A-2	0-5	0-10	50-85	45-85	40-80	30-60	30-40	NP-5
	16-24	*Very stony ashy silt loam, very cobbly ashy silt loam, very gravelly ashy silt loam	*ML, GM	*A-4, A-1	0-40	0-25	50-80	45-75	40-70	25-60	30-40	NP-5
	24-31	*Very cobbly very fine sandy loam, very stony loam, very stony sandy loam	*SM	*A-2, A-4, A-1	15-40	15-35	65-85	60-80	40-60	25-45	15-25	1-5
	31-48	*Very gravelly loamy sand, very cobbly loamy sand, extremely stony loamy sand	*GP-GM	*A-1	10-30	15-50	40-65	35-60	20-35	5-15	15-20	1-5
	48-60	*Extremely gravelly coarse sand, extremely cobbly coarse sand	*GP-GM, GW	*A-1	0-25	0-30	30-45	25-40	15-20	0-10	0-0	NP
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3072:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, extremely gravelly sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3072:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3073:												
Stien, very stony surface--	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Ashy silt loam	*ML	*A-4	0-5	0-5	90-100	85-100	70-95	55-85	30-40	NP-5
	3-8	*Ashy silt loam, gravelly ashy silt loam	*ML	*A-4	0-5	0-10	60-85	55-85	50-80	50-70	30-40	NP-5
	8-16	*Ashy silt loam, ashy very fine sandy loam, gravelly ashy silt loam	*ML, GM	*A-4, A-2	0-5	0-10	50-85	45-85	40-80	30-60	30-40	NP-5
	16-24	*Very stony ashy silt loam, very cobbly ashy silt loam, very gravelly ashy silt loam	*ML, GM	*A-4, A-1	0-40	0-25	50-80	45-75	40-70	25-60	30-40	NP-5
	24-31	*Very cobbly very fine sandy loam, very stony loam, very stony sandy loam	*SM	*A-2, A-4, A-1	15-40	15-35	65-85	60-80	40-60	25-45	15-25	1-5
	31-48	*Very gravelly loamy sand, very cobbly loamy sand, extremely stony loamy sand	*GP-GM	*A-1	10-30	15-50	40-65	35-60	20-35	5-15	15-20	1-5
	48-60	*Extremely gravelly coarse sand, extremely cobbly coarse sand	*GP-GM, GW	*A-1	0-25	0-30	30-45	25-40	15-20	0-10	0-0	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3073:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3073:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly loamy coarse sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, extremely gravelly sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3074:												
Eloika, moist---	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3074:												
Bonner----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-5	*Ashy fine sandy loam	*SM	*A-4	0	0	80-90	75-85	65-75	40-50	20-30	NP-5
	5-9	*Ashy fine sandy loam	*SM	*A-4, A-2	0	0-10	70-90	65-85	45-70	35-45	20-30	NP-5
	9-19	*Ashy fine sandy loam, gravelly ashy coarse sandy loam, ashy sandy loam	*SM, GM	*A-2, A-1, A-4	0	0-10	55-90	50-85	30-70	20-50	20-30	NP-5
	19-27	*Very gravelly loamy sand, gravelly loamy sand	*GP-GM, GM	*A-1	0	0-10	45-65	40-60	20-35	5-20	0-0	NP
	27-60	*Extremely gravelly coarse sand, very gravelly loamy coarse sand	*GW, GP-GM, GP	*A-1	0-10	10-25	15-45	10-40	5-30	0-10	0-0	NP
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3074:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3074:												
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy silt loam, ashy fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, silty clay loam, loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25
Wolfeson--------	0-9	*Ashy fine sandy loam	*SC-SM, SM	*A-4, A-2	0	0	100	90-100	65-85	35-55	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, ashy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, loam, very fine sandy loam, sandy loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, loamy fine sand, fine sandy loam, clay loam, loam	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, fine sandy loam, silty clay loam, clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3080:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3080:												
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3080:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3081:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3081:												
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3081:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3082:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3082:												
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3082:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
3083:												
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3083:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3083:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
3084:												
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3084:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Garrison, extremely stony surface--	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0-10	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3084:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3084:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
3085:												
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3085:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3085:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Urban land.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3087:												
Garrison, extremely stony surface--	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0-10	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3087:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3087:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	10-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	10-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Urban land.												
3090:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3090:												
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3090:												
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---
Uhlig----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Endoaquolls-----	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, silt loam, fine sandy loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, silt loam, gravelly fine sandy loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, silt loam, gravelly sandy loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, gravelly coarse sandy loam, very gravelly sandy loam, loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-60	*Stratified sandy loam to fine sandy loam, gravelly coarse sandy loam, very gravelly loamy sand	*SM, SC-SM, GP-GM	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-50	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3091:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3091:												
Glenrose, cobbly surface	0-8	*Cobbly ashy silt loam	*ML	*A-4	0	25	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3091:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3091:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
3101:												
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Blinn-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-6	*Ashy silt loam	*CL-ML, ML	*A-4	0-10	0-10	80-95	75-95	70-85	55-75	20-30	NP-10
	6-12	*Stony ashy silt loam, gravelly silt loam, cobbly silt loam	*CL-ML, ML	*A-4	0-20	0-20	75-90	70-85	65-80	50-65	20-30	NP-10
	12-24	*Stony loam, cobbly loam	*CL, CL-ML	*A-4	10-25	10-25	80-90	75-85	70-80	50-70	25-30	5-10
	24-39	*Very stony loam, extremely stony loam, very cobbly loam	*GC-GM	*A-4	25-55	10-45	50-70	45-65	40-60	35-50	20-30	5-10
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3101:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3102:												
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3102:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3102:												
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3110:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3110:												
Stutler---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	55-90	---	---
	1-5	*Gravelly ashy silt loam	*GC-GM, GM	*A-4	0	0-10	65-80	60-75	55-70	40-65	20-35	NP-10
	5-12	*Gravelly ashy silt loam, very gravelly ashy loam, very gravelly ashy silt loam, gravelly ashy loam	*GC-GM, GM	*A-4, A-2	0	0-25	50-65	45-60	40-60	30-55	20-35	NP-10
	12-22	*Very cobbly silt loam, extremely cobbly coarse sandy loam, very gravelly loam, extremely cobbly sandy loam	*GC-GM, GW-GM	*A-2, A-1, A-4	0-15	25-50	35-70	30-65	15-55	10-45	15-30	NP-10
	22-32	*Extremely cobbly loam, very cobbly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GP-GC, GP-GM	*A-1, A-4	0-15	25-50	25-70	20-65	10-55	5-45	15-30	NP-10
	32-42	*Extremely gravelly coarse sandy loam, extremely cobbly coarse sandy loam, extremely gravelly loam, very cobbly sandy loam	*GP-GM, GP	*A-1, A-4	0-15	15-55	15-65	10-55	10-50	0-40	15-30	NP-10
	42-61	*Extremely gravelly loamy coarse sand, extremely cobbly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, very cobbly sand	*GP	*A-1	0-25	10-55	15-60	10-55	5-45	0-5	0-20	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3110:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Seaboldt, warm--	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, gravelly loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0-5	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, gravelly loamy sand, cobbly loamy sand, very gravelly sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3110:												
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3112:												
Stutler, extremely bouldery												
surface--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	55-90	---	---
	1-5	*Gravelly ashy loam	*SC-SM, SM	*A-4	0-25	0-15	75-80	70-75	60-75	40-50	20-35	NP-15
	5-12	*Cobbly ashy loam, very gravelly ashy silt loam, stony ashy silt loam, very bouldery ashy loam	*CL-ML, GM	*A-4, A-2	0-25	0-25	60-90	55-85	45-75	30-70	20-35	NP-10
	12-22	*Extremely bouldery coarse sandy loam, extremely bouldery sandy loam, extremely stony sandy loam, very bouldery loam	*SC-SM, SM	*A-1, A-4	50-75	15-40	60-75	55-70	30-70	15-65	15-30	NP-10
	22-32	*Extremely bouldery coarse sandy loam, extremely bouldery sandy loam, extremely stony sandy loam, very bouldery loam	*GC-GM, GM	*A-1, A-4	50-75	15-40	55-75	50-70	30-65	15-50	15-30	NP-10
	32-42	*Extremely bouldery coarse sandy loam, extremely bouldery loam, extremely bouldery sandy loam	*GM, GW-GM	*A-1, A-4	55-85	15-40	35-75	30-70	15-65	10-50	15-30	NP-10
	42-61	*Extremely bouldery loamy coarse sand, extremely bouldery coarse sand, extremely bouldery sand	*GP-GM, GP	*A-1	55-85	15-40	35-75	30-70	15-50	0-20	0-15	NP
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3112:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3112:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3113:												
Stutler---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	55-90	---	---
	1-5	*Gravelly ashy silt loam	*GC-GM, GM	*A-4	0	0-10	65-80	60-75	55-70	40-65	20-35	NP-10
	5-12	*Gravelly ashy silt loam, very gravelly ashy loam, very gravelly ashy silt loam, gravelly ashy loam	*GC-GM, GM	*A-4, A-2	0	0-25	50-65	45-60	40-60	30-55	20-35	NP-10
	12-22	*Very cobbly silt loam, extremely cobbly coarse sandy loam, very gravelly loam, extremely cobbly sandy loam	*GC-GM, GW-GM	*A-2, A-1, A-4	0-15	25-50	35-70	30-65	15-55	10-45	15-30	NP-10
	22-32	*Extremely cobbly loam, very cobbly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GP-GC, GP-GM	*A-1, A-4	0-15	25-50	25-70	20-65	10-55	5-45	15-30	NP-10
	32-42	*Extremely gravelly coarse sandy loam, extremely cobbly coarse sandy loam, extremely gravelly loam, very cobbly sandy loam	*GP-GM, GP	*A-1, A-4	0-15	15-55	15-65	10-55	10-50	0-40	15-30	NP-10
	42-61	*Extremely gravelly loamy coarse sand, extremely cobbly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, very cobbly sand	*GP	*A-1	0-25	10-55	15-60	10-55	5-45	0-5	0-20	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3113:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3113:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3114:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3114:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Water.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3115:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3115:												
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3115:												
Stutler---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	55-90	---	---
	1-5	*Gravelly ashy silt loam	*GC-GM, GM	*A-4	0	0-10	65-80	60-75	55-70	40-65	20-35	NP-10
	5-12	*Gravelly ashy silt loam, very gravelly ashy loam, very gravelly ashy silt loam, gravelly ashy loam	*GC-GM, GM	*A-4, A-2	0	0-25	50-65	45-60	40-60	30-55	20-35	NP-10
	12-22	*Very cobbly silt loam, extremely cobbly coarse sandy loam, very gravelly loam, extremely cobbly sandy loam	*GC-GM, GW-GM	*A-2, A-1, A-4	0-15	25-50	35-70	30-65	15-55	10-45	15-30	NP-10
	22-32	*Extremely cobbly loam, very cobbly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GP-GC, GP-GM	*A-1, A-4	0-15	25-50	25-70	20-65	10-55	5-45	15-30	NP-10
	32-42	*Extremely gravelly coarse sandy loam, extremely cobbly coarse sandy loam, extremely gravelly loam, very cobbly sandy loam	*GP-GM, GP	*A-1, A-4	0-15	15-55	15-65	10-55	10-50	0-40	15-30	NP-10
	42-61	*Extremely gravelly loamy coarse sand, extremely cobbly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, very cobbly sand	*GP	*A-1	0-25	10-55	15-60	10-55	5-45	0-5	0-20	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3115:												
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
3116:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3116:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3116:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
3117:												
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3117:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3117:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
3118:												
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3118:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Water.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3120:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Hagen-----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3120:												
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
3121:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3121:												
Bong	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Hagen	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
Hardesty	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
3122:												
Marble	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3122:												
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
Hagen----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Bong----------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3122:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
3123:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Spens----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Hagen----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3123:												
Spens, cool-----	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP, GM	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GP, GM	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Bong-----------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3126:												
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3126:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---
3127:												
Marblespring----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3127:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Spens----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3130:												
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Bong----------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3131:												
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Bong----------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3132:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3133:												
Phoebe, dry-----	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Bong------------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3134:												
Phoebe, dry-----	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Bong-----------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3135:												
Bong----------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Phoebe, dry-----	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3140:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3140:												
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3140:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3140: Springdale, stony surface--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0-10	0-10	60-75	55-70	25-40	20-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3141:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3141:												
Spens----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Garrison--------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3141:												
Opportunity-----	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3142:												
Spens----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3142:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3142:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
3143:												
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3143:												
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3143:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3144:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3144:												
Bonner----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-5	*Ashy fine sandy loam	*SM	*A-4	0	0	80-90	75-85	65-75	40-50	20-30	NP-5
	5-9	*Ashy fine sandy loam	*SM	*A-4, A-2	0	0-10	70-90	65-85	45-70	35-45	20-30	NP-5
	9-19	*Ashy fine sandy loam, gravelly ashy coarse sandy loam, ashy sandy loam	*SM, GM	*A-2, A-1, A-4	0	0-10	55-90	50-85	30-70	20-50	20-30	NP-5
	19-27	*Very gravelly loamy sand, gravelly loamy sand	*GP-GM, GM	*A-1	0	0-10	45-65	40-60	20-35	5-20	0-0	NP
	27-60	*Extremely gravelly coarse sand, very gravelly loamy coarse sand	*GW, GP-GM, GP	*A-1	0-10	10-25	15-45	10-40	5-30	0-10	0-0	NP
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3145:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3145:												
Scoap----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy sandy loam	*SM	*A-1, A-2	0	0-10	60-80	55-75	35-45	15-30	20-30	NP-5
	7-17	*Very gravelly ashy sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0-10	50-65	45-60	30-40	15-25	20-30	NP-5
	17-30	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	0	0-40	40-55	35-50	20-30	10-20	15-25	NP-5
	30-47	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	0	10-35	40-55	35-50	20-30	10-20	15-25	NP-5
	47-60	*Gravelly loamy sand, very cobbly sandy loam, very gravelly sandy loam	*SP-SM, SM, GP-GM	*A-1	0-10	0-30	50-75	45-70	30-50	5-20	0-0	NP
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3145:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
3146:												
Scoap----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy sandy loam	*SM	*A-1, A-2	0	0-10	60-80	55-75	35-45	15-30	20-30	NP-5
	7-17	*Very gravelly ashy sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0-10	50-65	45-60	30-40	15-25	20-30	NP-5
	17-30	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	0	0-40	40-55	35-50	20-30	10-20	15-25	NP-5
	30-47	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	0	10-35	40-55	35-50	20-30	10-20	15-25	NP-5
	47-60	*Gravelly loamy sand, very cobbly sandy loam, very gravelly sandy loam	*SP-SM, SM, GP-GM	*A-1	0-10	0-30	50-75	45-70	30-50	5-20	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3146:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3146:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---
3147:												
Spens, cool-----	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3147:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Springdale------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3147:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3148:												
Spens, cool-----	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3148:												
Wapal----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	65-75	60-70	40-50	20-30	15-25	NP-5
	6-13	*Gravelly ashy coarse sandy loam, gravelly ashy sandy loam	*GM	*A-1	0	0	50-60	45-55	30-40	15-25	15-20	NP-5
	13-17	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM, GP-GM	*A-1	0	0	45-55	40-50	25-35	10-20	0-0	NP-5
	17-21	*Very gravelly loamy coarse sand, extremely gravelly loamy coarse sand, very gravelly loamy sand	*GW-GM	*A-1	0	0	30-40	25-35	10-20	5-15	0-0	NP-5
	21-30	*Extremely gravelly coarse sand, very gravelly coarse sand, extremely gravelly loamy sand, extremely gravelly sand, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0	0-25	35-45	30-40	15-25	0-10	0-0	NP-5
	30-36	*Very gravelly coarse sand, very gravelly loamy coarse sand, very gravelly loamy sand, extremely gravelly coarse sand	*GP-GM, GW	*A-1	0	0-10	30-40	25-35	10-20	0-10	0-0	NP-5
	36-62	*Extremely gravelly coarse sand, extremely gravelly sand, extremely gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, GP	*A-1	0	0-15	20-30	15-25	5-15	0-10	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3200:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3200:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3200:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
3201:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Ashy sandy loam	*SC-SM, SM	*A-2	0	0	100	85-100	55-70	25-40	20-30	NP-5
	7-11	*Ashy sandy loam, ashy coarse sandy loam	*SM, SC-SM	*A-2, A-4	0	0	100	85-100	55-70	25-40	20-25	NP-5
	11-22	*Ashy sandy loam, sandy loam, ashy coarse sandy loam, coarse sandy loam	*SM, SC-SM	*A-2, A-4	0	0	100	85-100	50-70	25-40	15-25	NP-5
	22-33	*Loamy coarse sand, Coarse sand, sand	*SM, SP-SM	*A-2, A-1	0	0	100	85-90	45-70	5-25	0-15	NP
	33-45	*Coarse sand, fine gravelly loamy coarse sand, fine gravelly sand	*SW-SM, SM, SP-SM	*A-3, A-2	0	0	100	55-85	30-60	5-25	0-0	NP
	45-60	*Gravelly coarse sand, gravelly loamy coarse sand, gravelly sand	*SP-SM, SM	*A-1, A-2	0	0	60-80	55-75	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3201:												
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3201:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3202:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3202:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3202:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3210:												
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3210:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3210:												
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Colburn----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3210:												
Wolfeson--------	0-9	*Ashy very fine sandy loam	*CL-ML, SM	*A-4	0	0	100	90-100	75-95	45-65	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, ashy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, loam, very fine sandy loam, sandy loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, loamy fine sand, fine sandy loam, clay loam, loam	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, fine sandy loam, silty clay loam, clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
3211:												
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3211:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3211:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3212:												
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
Seaboldt--------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Stapaloop-------	0-8	*Ashy fine sandy loam	*CL-ML, SM	*A-4	0	0	100	95-100	75-90	40-55	15-30	NP-10
	8-14	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	65-90	35-55	15-25	NP-5
	14-22	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	70-90	35-55	15-25	NP-5
	22-32	*Fine sandy loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-80	35-55	0-20	NP-5
	32-52	*Loamy fine sand, sandy loam, fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	70-80	30-55	0-0	NP
	52-60	*Loamy fine sand, fine sandy loam, loamy sand	*SM	*A-2, A-4	0	0	95-100	90-100	60-80	20-50	0-0	NP
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3212:												
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3220:												
Stapaloop-------	0-8	*Ashy fine sandy loam	*CL-ML, SM	*A-4	0	0	100	95-100	75-90	40-55	15-30	NP-10
	8-14	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	65-90	35-55	15-25	NP-5
	14-22	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	70-90	35-55	15-25	NP-5
	22-32	*Fine sandy loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-80	35-55	0-20	NP-5
	32-52	*Loamy fine sand, sandy loam, fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	70-80	30-55	0-0	NP
	52-60	*Loamy fine sand, fine sandy loam, loamy sand	*SM	*A-2, A-4	0	0	95-100	90-100	60-80	20-50	0-0	NP
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy fine sandy loam, ashy silt loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, loam, silty clay loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3220:												
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Wolfeson--------	0-9	*Ashy very fine sandy loam	*CL-ML, SM	*A-4	0	0	100	90-100	75-95	45-65	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, ashy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, loam, very fine sandy loam, sandy loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, loamy fine sand, fine sandy loam, clay loam, loam	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, fine sandy loam, silty clay loam, clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3221:												
Stapaloop-------	0-8	*Ashy fine sandy loam	*CL-ML, SM	*A-4	0	0	100	95-100	75-90	40-55	15-30	NP-10
	8-14	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	65-90	35-55	15-25	NP-5
	14-22	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	70-90	35-55	15-25	NP-5
	22-32	*Fine sandy loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-80	35-55	0-20	NP-5
	32-52	*Loamy fine sand, sandy loam, fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	70-80	30-55	0-0	NP
	52-60	*Loamy fine sand, fine sandy loam, loamy sand	*SM	*A-2, A-4	0	0	95-100	90-100	60-80	20-50	0-0	NP
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy fine sandy loam, ashy silt loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, loam, silty clay loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3221:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3222:												
Stapaloop-------	0-8	*Ashy fine sandy loam	*CL-ML, SM	*A-4	0	0	100	95-100	75-90	40-55	15-30	NP-10
	8-14	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	65-90	35-55	15-25	NP-5
	14-22	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	70-90	35-55	15-25	NP-5
	22-32	*Fine sandy loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-80	35-55	0-20	NP-5
	32-52	*Loamy fine sand, sandy loam, fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	70-80	30-55	0-0	NP
	52-60	*Loamy fine sand, fine sandy loam, loamy sand	*SM	*A-2, A-4	0	0	95-100	90-100	60-80	20-50	0-0	NP
Seaboldt--------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3222:												
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy fine sandy loam, ashy silt loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, loam, silty clay loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3300:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3300:												
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3300:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3300:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3301:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3301:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3301:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Kaniksu---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	6-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-25	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	25-43	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	43-55	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
	55-70	*Sand, loamy sand	*SP-SM, SM	*A-3, A-2, A-1	0	0	80-100	75-100	45-75	5-30	0-0	NP
3302:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3302:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3302:												
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3302:												
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP
Eloika, moist---	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3303:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Torboy----------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Fine gravelly ashy coarse sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	70-75	40-50	20-30	20-30	NP-5
	7-11	*Fine gravelly ashy sandy loam, fine gravelly ashy coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	20-25	NP-5
	11-22	*Fine gravelly ashy sandy loam, fine gravelly sandy loam, fine gravelly ashy coarse sandy loam, fine gravelly coarse sandy loam	*SM, SC-SM	*A-1, A-2	0	0	100	60-75	35-50	15-30	15-25	NP-5
	22-33	*Fine gravelly loamy coarse sand, fine gravelly coarse sand, fine gravelly sand	*SM, SP-SM	*A-1, A-2	0	0	100	55-75	30-70	5-20	0-15	NP
	33-45	*Gravelly coarse sand, very gravelly loamy coarse sand, very gravelly sand	*SP-SM, GP	*A-1	0	0	45-95	40-75	20-50	0-25	0-0	NP
	45-60	*Very gravelly coarse sand, gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0	35-60	30-55	15-45	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3303:												
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
Eloika----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy very fine sandy loam	*ML, SM	*A-4	0	0	80-100	75-100	70-90	45-65	25-40	NP-5
	6-14	*Ashy very fine sandy loam, ashy silt loam, ashy loam	*ML, SM	*A-4	0	0	80-100	75-100	60-90	40-70	20-40	NP-5
	14-21	*Ashy very fine sandy loam, ashy sandy loam, ashy loam	*SM, ML	*A-4	0	0	65-100	60-100	40-85	25-65	20-40	NP-5
	21-41	*Sandy loam, gravelly sandy loam, loam	*SM, CL-ML	*A-2, A-4, A-1	0	0	75-100	70-100	50-80	20-60	15-25	NP-5
	41-60	*Very gravelly coarse sand, extremely gravelly loamy coarse sand, very gravelly sand	*GP-GM, GP	*A-1	0	0-10	35-55	30-50	15-30	0-10	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3303:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
3401:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Hagen-----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3401:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3402:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Hagen-----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM,	*A-3, A-2,	0	0	90-100	85-100	45-70	5-30	0-10	NP
Stapaloop-------	0-8	*Ashy fine sandy loam	*CL-ML, SM	*A-4	0	0	100	95-100	75-90	40-55	15-30	NP-10
	8-14	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	65-90	35-55	15-25	NP-5
	14-22	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	70-90	35-55	15-25	NP-5
	22-32	*Fine sandy loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-80	35-55	0-20	NP-5
	32-52	*Loamy fine sand, sandy loam, fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	70-80	30-55	0-0	NP
	52-60	*Loamy fine sand, fine sandy loam, loamy sand	*SM	*A-2, A-4	0	0	95-100	90-100	60-80	20-50	0-0	NP
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3402:												
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP
3403:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Hagen----------	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3403:												
Scrabblers------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy fine sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	60-80	35-55	20-40	NP-5
	5-8	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4, A-2	0	0	90-100	85-100	55-80	30-55	20-40	NP-5
	8-12	*Ashy fine sandy loam, ashy sandy loam	*SM, ML	*A-4	0	0	80-100	75-100	45-80	25-55	20-40	NP-5
	12-23	*Gravelly sandy loam, sandy loam	*SM	*A-1, A-2	0	0	80-95	75-90	40-60	20-35	0-0	NP
	23-36	*Loamy coarse sand, gravelly coarse sand, coarse sand	*SM, SP-SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
	36-60	*Gravelly coarse sand, loamy coarse sand, coarse sand	*SP-SM, SM	*A-1, A-2	0	0	65-90	60-85	30-60	5-25	0-0	NP
Colburn---------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0	95-100	90-100	85-95	55-70	20-35	NP-10
	5-12	*Ashy fine sandy loam, ashy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-85	35-65	15-25	NP-5
	12-21	*Ashy fine sandy loam, ashy sandy loam, ashy very fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	60-90	35-65	15-30	NP-5
	21-32	*Sandy loam, ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	90-100	85-100	50-70	25-40	15-30	NP-5
	32-43	*Loamy coarse sand, loamy sand, sandy loam	*SM, SP-SM	*A-1, A-2	0	0	80-100	75-100	40-60	10-30	0-10	NP
	43-55	*Extremely gravelly loamy coarse sand, gravelly loamy coarse sand, very gravelly coarse sand	*GP-GM, SP-SM	*A-1	0	0	30-80	25-75	15-35	5-10	0-10	NP
	55-60	*Loamy coarse sand, sand, gravelly loamy sand, gravelly coarse sand	*SW-SM, SP-SM	*A-1	0	0-15	75-100	70-100	35-55	5-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3404:												
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Seaboldt--------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kaniksu, dry----	0-7	*Ashy sandy loam	*SM	*A-2	0	0	95-100	90-100	60-70	25-40	15-25	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	15-23	*Sandy loam, fine sandy loam	*SM	*A-2	0	0	95-100	90-100	60-75	25-50	15-25	NP-5
	23-42	*Loamy sand, sandy loam	*SM	*A-2	0	0	90-100	85-100	60-70	20-40	0-0	NP
	42-60	*Loamy sand, sand	*SM, SP-SM	*A-2, A-3	0	0	90-100	85-100	60-75	10-30	0-0	NP
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3404:												
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
3500:												
Uhlig----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3501:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Uhlig----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3501:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Seaboldt--------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Nez Perce-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	10-19	*Silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
	19-30	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-60	20-35
	30-42	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
	42-60	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3502:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-1, A-4	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3502:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3503:												
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Bong----------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3503:												
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Deno------------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-90	65-85	20-35	NP-5
	4-14	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	85-100	80-100	65-85	50-80	20-35	NP-5
	14-28	*Ashy loam, ashy silt loam, gravelly ashy loam	*ML	*A-4	0	0	75-100	70-100	65-85	50-80	20-35	NP-5
	28-40	*Loam, silt loam, gravelly loam	*ML	*A-4	0	0	70-100	65-100	55-85	40-70	20-30	NP-5
	40-48	*Coarse sandy loam, gravelly coarse sandy loam, sandy loam	*SM	*A-2, A-4	0	0	70-100	65-100	40-60	20-40	20-30	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Seaboldt, dry---	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3504:												
Brincken--------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3504:												
Cheney----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	75-100	70-100	65-95	60-90	20-35	NP-10
	10-14	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0	75-100	70-100	55-85	50-80	20-35	NP-10
	14-22	*Ashy silt loam, ashy loam, gravelly ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	22-28	*Ashy silt loam, gravelly ashy loam, ashy loam	*ML	*A-4	0	0-20	65-100	60-100	50-95	35-85	20-35	NP-10
	28-32	*Very gravelly sandy loam, extremely gravelly loamy sand, very gravelly loamy sand, very cobbly sandy loam	*GM	*A-1	0	0-35	30-60	25-55	10-40	5-25	0-20	NP-5
	32-60	*Extremely gravelly coarse sand, extremely cobbly loamy coarse sand, very gravelly loamy sand	*GP	*A-1	0-20	0-35	20-65	15-60	5-45	0-20	0-10	NP
Uhlig, dry------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Tucannon--------	0-5	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-100	55-90	25-35	5-15
	5-10	*Ashy silt loam, ashy loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	70-95	50-85	25-35	5-15
	10-21	*Gravelly ashy silt loam, silt loam, loam, ashy loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	21-29	*Gravelly silt loam, loam	*CL, GC	*A-6, A-4	0	0-10	60-95	55-90	55-85	45-80	25-35	10-15
	29-39	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3504:												
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
3505:												
Seaboldt, warm--	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3505:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Nez Perce-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	10-19	*Silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
	19-30	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-60	20-35
	30-42	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
	42-60	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
Uhlig-----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, silt loam, very fine sandy loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, loam, gravelly sandy loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3505: Urban land.												
3600: Seaboldt--------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Uhlig----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Rockly----------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3600:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3600:												
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
3601:												
Seaboldt--------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3601:												
Fourmound-------	0-4	*Gravelly ashy silt loam	*ML	*A-4	0	0	70-75	65-70	60-65	55-65	20-35	NP-5
	4-9	*Ashy silt loam, ashy loam, gravelly ashy silt loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	9-15	*Ashy silt loam, gravelly ashy silt loam, ashy loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-35	NP-5
	15-30	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	30-43	*Silt loam, gravelly loam, loam	*ML	*A-4	0	0	85-100	65-95	55-90	50-85	20-30	NP-5
	43-47	*Extremely gravelly silt loam, extremely gravelly loam, very gravelly silt loam	*GM	*A-2, A-4, A-1	0	0-30	25-55	20-50	15-45	10-40	20-30	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Northstar-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Uhlig-----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
3601:												
Phoebe----------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
4000:												
Hunters---------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	80-90	25-35	5-10
	6-14	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	80-90	25-35	5-10
	14-26	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	80-90	20-30	5-10
	26-36	*Silt loam, silt	*CL-ML, ML	*A-4	0	0	100	100	95-100	75-95	15-25	NP-10
	36-46	*Silt	*ML	*A-4	0	0	100	90-100	95-100	80-95	0-25	NP-5
	46-55	*Silt	*ML	*A-4	0	0	100	90-100	95-100	80-95	0-25	NP-5
	55-64	*Silt, very fine sandy loam	*ML	*A-4	0	0	100	90-100	85-100	65-95	0-20	NP-5
Cedonia---------	0-6	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-15
	6-12	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-20
	12-27	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	27-33	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	33-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	95-100	90-100	85-100	80-100	25-45	5-25
Peone----------	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4001:												
Cedonia---------	0-6	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-15
	6-12	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-20
	12-27	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	27-33	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	33-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	95-100	90-100	85-100	80-100	25-45	5-25
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Hunters---------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	80-90	25-35	5-10
	6-14	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	80-90	25-35	5-10
	14-26	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	80-90	20-30	5-10
	26-36	*Silt loam, silt	*CL-ML, ML	*A-4	0	0	100	100	95-100	75-95	15-25	NP-10
	36-46	*Silt	*ML	*A-4	0	0	100	90-100	95-100	80-95	0-25	NP-5
	46-55	*Silt	*ML	*A-4	0	0	100	90-100	95-100	80-95	0-25	NP-5
	55-64	*Silt, very fine sandy loam	*ML	*A-4	0	0	100	90-100	85-100	65-95	0-20	NP-5
Peone-----------	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4002:												
Cedonia---------	0-6	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-15
	6-12	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-20
	12-27	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	27-33	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	33-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	95-100	90-100	85-100	80-100	25-45	5-25
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Peone-----------	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Hunters---------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	80-90	25-35	5-10
	6-14	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	80-90	25-35	5-10
	14-26	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	80-90	20-30	5-10
	26-36	*Silt loam, silt	*CL-ML, ML	*A-4	0	0	100	100	95-100	75-95	15-25	NP-10
	36-46	*Silt	*ML	*A-4	0	0	100	90-100	95-100	80-95	0-25	NP-5
	46-55	*Silt	*ML	*A-4	0	0	100	90-100	95-100	80-95	0-25	NP-5
	55-64	*Silt, very fine sandy loam	*ML	*A-4	0	0	100	90-100	85-100	65-95	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4031:												
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Cedonia---------	0-6	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-15
	6-12	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	90-95	25-40	5-20
	12-27	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	27-33	*Silt loam, silt	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	90-100	20-40	5-20
	33-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	95-100	90-100	85-100	80-100	25-45	5-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4031:												
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4031:												
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
4032:												
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4032:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4032:												
Marble----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
4033:												
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4033:												
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Speigle---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4033:												
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
4040:												
Wolfeson--------	0-9	*Ashy fine sandy loam	*SC-SM, SM	*A-4, A-2	0	0	100	90-100	65-85	35-55	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, ashy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, loam, very fine sandy loam, sandy loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, loamy fine sand, fine sandy loam, clay loam, loam	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, fine sandy loam, silty clay loam, clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4040:												
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy fine sandy loam, ashy silt loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, loam, silty clay loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25
Stapaloop-------	0-8	*Ashy fine sandy loam	*CL-ML, SM	*A-4	0	0	100	95-100	75-90	40-55	15-30	NP-10
	8-14	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	65-90	35-55	15-25	NP-5
	14-22	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	70-90	35-55	15-25	NP-5
	22-32	*Fine sandy loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-80	35-55	0-20	NP-5
	32-52	*Loamy fine sand, sandy loam, fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	70-80	30-55	0-0	NP
	52-60	*Loamy fine sand, fine sandy loam, loamy sand	*SM	*A-2, A-4	0	0	95-100	90-100	60-80	20-50	0-0	NP
Bridgeson-------	0-12	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-100	20-35	5-10
	12-20	*Silt loam, loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-100	60-85	30-35	10-15
	20-31	*Clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20
	31-40	*Clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20
	40-60	*Clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4041:												
Wolfeson--------	0-9	*Ashy very fine sandy loam	*CL-ML, SM	*A-4	0	0	100	90-100	75-95	45-65	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy very fine sandy loam, ashy sandy loam, ashy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, loam, very fine sandy loam, sandy loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, loamy fine sand, fine sandy loam, clay loam, loam	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, fine sandy loam, silty clay loam, clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy silt loam, ashy fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, silty clay loam, loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25
Bridgeson-------	0-12	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-100	20-35	5-10
	12-20	*Silt loam, loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-100	60-85	30-35	10-15
	20-31	*Clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20
	31-40	*Clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20
	40-60	*Clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	95-100	90-100	75-100	55-85	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4041:												
Stapaloop-------	0-8	*Ashy fine sandy loam	*CL-ML, SM	*A-4	0	0	100	95-100	75-90	40-55	15-30	NP-10
	8-14	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	65-90	35-55	15-25	NP-5
	14-22	*Ashy fine sandy loam, ashy sandy loam	*SM, CL-ML	*A-4, A-2	0	0	100	95-100	70-90	35-55	15-25	NP-5
	22-32	*Fine sandy loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	95-100	90-100	65-80	35-55	0-20	NP-5
	32-52	*Loamy fine sand, sandy loam, fine sandy loam	*SM, ML	*A-4, A-2	0	0	95-100	90-100	70-80	30-55	0-0	NP
	52-60	*Loamy fine sand, fine sandy loam, loamy sand	*SM	*A-2, A-4	0	0	95-100	90-100	60-80	20-50	0-0	NP
4050:												
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy silt loam, ashy fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, silty clay loam, loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4050:												
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Wolfeson--------	0-9	*Ashy fine sandy loam	*SC-SM, SM	*A-4, A-2	0	0	100	90-100	65-85	35-55	15-30	NP-10
	9-21	*Ashy fine sandy loam, ashy loam, ashy very fine sandy loam, ashy sandy loam	*CL-ML, SM	*A-4, A-2	0	0	95-100	90-100	65-95	35-65	15-30	NP-10
	21-37	*Fine sandy loam, very fine sandy loam, sandy loam, loam	*CL-ML, SM	*A-4, A-2	0	0	90-100	85-100	65-95	30-65	15-30	NP-10
	37-48	*Clay loam, silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	95-100	90-100	80-100	65-95	20-50	5-30
	48-53	*Silty clay loam, clay loam, fine sandy loam, loam, loamy fine sand	*CL, SM, CH	*A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
	53-60	*Loamy fine sand, clay loam, fine sandy loam, silty clay loam, sandy loam	*SC-SM, SM, CH	*A-4, A-7, A-2	0	0	95-100	90-100	70-100	35-95	15-50	NP-30
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4051:												
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy silt loam, ashy fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, silty clay loam, loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25
Klickson--------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, cobbly ashy loam, gravelly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4051:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Blinn, stony surface--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-6	*Ashy silt loam	*CL-ML, ML	*A-4	0-10	0-10	80-95	75-95	70-85	55-75	20-30	NP-10
	6-12	*Stony ashy silt loam, gravelly silt loam, cobbly silt loam	*CL-ML, ML	*A-4	0-20	0-20	75-90	70-85	65-80	50-65	20-30	NP-10
	12-24	*Stony loam, cobbly loam	*CL, CL-ML	*A-4	10-25	10-25	80-90	75-85	70-80	50-70	25-30	5-10
	24-39	*Very stony loam, extremely stony loam, very cobbly loam	*GC-GM	*A-4	25-55	10-45	50-70	45-65	40-60	35-50	20-30	5-10
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
4051:												
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5001:												
Brickel---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-3	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0	45-60	40-60	40-60	30-50	30-40	NP-5
	3-9	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0	45-60	40-60	35-60	30-50	30-40	NP-5
	9-19	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-15	20-40	15-35	15-35	15-30	30-40	NP-5
	19-27	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-15	20-40	15-35	15-35	15-30	30-40	NP-5
	27-31	*Very cobbly ashy very fine sandy loam, very gravelly ashy very fine sandy loam, very cobbly very fine sandy loam	*GM	*A-1, A-2	0	45-65	30-50	25-45	20-40	15-30	30-40	NP-5
	31-41	*Bedrock	---	---	---	---	---	---	---	---	---	---
Vaywood---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-8	*Medial silt loam	*ML	*A-5	0	0	100	90-100	65-90	60-85	40-50	NP-5
	8-20	*Medial silt loam	*ML	*A-5	0	0-10	85-100	75-100	65-90	60-85	40-50	NP-5
	20-24	*Gravelly medial silt loam	*ML	*A-5	0	0-15	70-80	65-75	65-75	60-70	40-50	NP-5
	24-36	*Very cobbly sandy loam, very gravelly sandy loam	*SC-SM, GM	*A-1, A-2	0-10	15-45	50-65	45-60	30-40	15-25	20-30	NP-10
	36-44	*Extremely stony sandy loam, extremely cobbly sandy loam	*GW-GC, GW-GM	*A-1, A-2	15-50	20-45	30-45	25-40	10-25	10-15	20-30	NP-10
	44-50	*Extremely stony loamy sand, extremely stony sandy loam	*GW-GM, GM, GW	*A-1	50-70	15-30	25-35	20-30	5-25	0-15	0-0	NP
	50-60	*Extremely stony loamy sand	*GP-GM, GP	*A-1	50-80	15-30	15-30	10-25	5-15	0-10	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5001:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5001:												
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5023:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5023:												
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Lenz------------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5024:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5024:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lenz------------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5024:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
5025:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5025:												
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5025:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5026:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5026:												
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5026:												
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Lenz------------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5027:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5027:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5027:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5037:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5037:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5037:												
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spens-----------	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5040:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5040:												
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Lenz------------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5041:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5041:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5053:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5053:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Hysing, dry-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	100	85-100	80-95	70-90	30-40	NP-5
	6-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	18-28	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	28-31	*Very gravelly sandy loam, very gravelly loamy sand	*SW-SM, SP-SM	*A-1	0	0	85-95	25-55	15-35	5-15	0-15	NP
	31-47	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	*SW-SM, SP, SP-SM	*A-1	0	0	85-95	25-50	15-35	0-10	0-0	NP
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5053:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5053:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5060:												
Bouldercreek, moist----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-4	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	4-13	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	13-21	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	60-90	55-85	50-80	40-70	25-40	NP-5
	21-38	*Very cobbly coarse sandy loam, very gravelly loam, very gravelly sandy loam	*GM	*A-1, A-2	0-10	10-25	40-70	35-65	30-60	15-35	20-30	NP-5
	38-60	*Extremely gravelly coarse sandy loam, very gravelly loam, extremely cobbly sandy loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-45	25-55	20-50	15-35	10-30	20-30	NP-5
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5060:												
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20
Nakarna---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	4-15	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	15-19	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	19-33	*Sandy loam, fine sandy loam, gravelly loam	*SM, CL-ML	*A-4	0	0	75-95	70-90	55-85	35-60	20-25	NP-5
	33-44	*Paragravelly sandy loam, gravelly sandy loam, sandy loam	*SM	*A-2	0	0	70-80	65-75	55-70	25-35	20-25	NP-5
	44-54	*Paragravelly loamy coarse sand, very paragravelly loamy coarse sand, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0	65-95	60-90	45-70	20-35	0-0	NP
	54-64	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5060:												
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
5061:												
Nakarna---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	4-15	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	15-19	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	19-33	*Sandy loam, fine sandy loam, gravelly loam	*SM, CL-ML	*A-4	0	0	75-95	70-90	55-85	35-60	20-25	NP-5
	33-44	*Paragravelly sandy loam, gravelly sandy loam, sandy loam	*SM	*A-2	0	0	70-80	65-75	55-70	25-35	20-25	NP-5
	44-54	*Paragravelly loamy coarse sand, very paragravelly loamy coarse sand, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0	65-95	60-90	45-70	20-35	0-0	NP
	54-64	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5061:												
Nakarna, dry----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	6-23	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	23-29	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	29-33	*Gravelly loam, fine sandy loam	*ML, CL-ML, SM	*A-4	0	0	75-95	70-90	60-85	45-75	20-25	NP-5
	33-42	*Gravelly sandy loam, paragravelly sandy loam, sandy loam	*SM, SC-SM	*A-2, A-1	0	0	65-95	60-90	50-65	20-30	20-25	NP-5
	42-49	*Sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0	65-90	60-85	50-75	25-40	20-25	NP-5
	49-59	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5061:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5061:												
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---
5062:												
Nakarna---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	4-15	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	15-19	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	19-33	*Sandy loam, fine sandy loam, gravelly loam	*SM, CL-ML	*A-4	0	0	75-95	70-90	55-85	35-60	20-25	NP-5
	33-44	*Paragravelly sandy loam, gravelly sandy loam, sandy loam	*SM	*A-2	0	0	70-80	65-75	55-70	25-35	20-25	NP-5
	44-54	*Paragravelly loamy coarse sand, very paragravelly loamy coarse sand, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0	65-95	60-90	45-70	20-35	0-0	NP
	54-64	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5062:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5062:												
Nakarna, dry----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	6-23	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	23-29	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	29-33	*Gravelly loam, fine sandy loam	*ML, CL-ML, SM	*A-4	0	0	75-95	70-90	60-85	45-75	20-25	NP-5
	33-42	*Gravelly sandy loam, paragravelly sandy loam, sandy loam	*SM, SC-SM	*A-2, A-1	0	0	65-95	60-90	50-65	20-30	20-25	NP-5
	42-49	*Sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0	65-90	60-85	50-75	25-40	20-25	NP-5
	49-59	*Bedrock	---	---	---	---	---	---	---	---	---	---
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5067:												
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5067:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5067:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5067:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5068:												
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5068:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5068:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5068:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5070:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5070:												
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5070:												
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5071:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5071:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	85-100	75-90	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	85-100	75-90	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5071:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5072:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5072:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5072:												
Hardesty--------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
5073:												
Lenz------------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5073:												
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5073:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
5074:												
Lenz------------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5074:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5074:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5080:												
Vaywood---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-8	*Medial silt loam	*ML	*A-5	0	0	100	90-100	65-90	60-85	40-50	NP-5
	8-20	*Medial silt loam	*ML	*A-5	0	0-10	85-100	75-100	65-90	60-85	40-50	NP-5
	20-24	*Gravelly medial silt loam	*ML	*A-5	0	0-15	70-80	65-75	65-75	60-70	40-50	NP-5
	24-36	*Very cobbly sandy loam, very gravelly sandy loam	*SC-SM, GM	*A-1, A-2	0-10	15-45	50-65	45-60	30-40	15-25	20-30	NP-10
	36-44	*Extremely stony sandy loam, extremely cobbly sandy loam	*GW-GC, GW-GM	*A-1, A-2	15-50	20-45	30-45	25-40	10-25	10-15	20-30	NP-10
	44-50	*Extremely stony loamy sand, extremely stony sandy loam	*GW-GM, GM, GW	*A-1	50-70	15-30	25-35	20-30	5-25	0-15	0-0	NP
	50-60	*Extremely stony loamy sand	*GP-GM, GP	*A-1	50-80	15-30	15-30	10-25	5-15	0-10	0-0	NP
Vay---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Medial silt loam	*ML	*A-5	0	0	100	90-100	65-90	60-85	40-50	NP-5
	6-18	*Medial silt loam	*ML	*A-5	0	0-10	85-100	75-100	65-90	60-85	40-50	NP-5
	18-22	*Medial silt loam, gravelly medial silt loam	*ML	*A-5	0	0-10	85-100	75-100	65-90	60-85	40-50	NP-5
	22-30	*Very cobbly sandy loam, very gravelly sandy loam	*SC-SM, GM	*A-1, A-2	0-10	15-45	50-65	45-60	30-40	15-25	20-30	NP-10
	30-42	*Extremely stony sandy loam, extremely cobbly sandy loam	*GW-GC, GW-GM	*A-1, A-2	15-50	20-45	30-45	25-40	10-25	10-15	20-30	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5080:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brickel---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-3	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0	45-60	40-60	40-60	30-50	30-40	NP-5
	3-9	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0	45-60	40-60	35-60	30-50	30-40	NP-5
	9-19	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-15	20-40	15-35	15-35	15-30	30-40	NP-5
	19-27	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-15	20-40	15-35	15-35	15-30	30-40	NP-5
	27-31	*Very cobbly ashy very fine sandy loam, very gravelly ashy very fine sandy loam, very cobbly very fine sandy loam	*GM	*A-1, A-2	0	45-65	30-50	25-45	20-40	15-30	30-40	NP-5
	31-41	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5081:												
Vaywood---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-8	*Medial silt loam	*ML	*A-5	0	0	100	90-100	65-90	60-85	40-50	NP-5
	8-20	*Medial silt loam	*ML	*A-5	0	0-10	85-100	75-100	65-90	60-85	40-50	NP-5
	20-24	*Gravelly medial silt loam	*ML	*A-5	0	0-15	70-80	65-75	65-75	60-70	40-50	NP-5
	24-36	*Very cobbly sandy loam, very gravelly sandy loam	*SC-SM, GM	*A-1, A-2	0-10	15-45	50-65	45-60	30-40	15-25	20-30	NP-10
	36-44	*Extremely stony sandy loam, extremely cobbly sandy loam	*GW-GC, GW-GM	*A-1, A-2	15-50	20-45	30-45	25-40	10-25	10-15	20-30	NP-10
	44-50	*Extremely stony loamy sand, extremely stony sandy loam	*GW-GM, GM, GW	*A-1	50-70	15-30	25-35	20-30	5-25	0-15	0-0	NP
	50-60	*Extremely stony loamy sand	*GP-GM, GP	*A-1	50-80	15-30	15-30	10-25	5-15	0-10	0-0	NP
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5081:												
Vay----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-6	*Medial silt loam	*ML	*A-5	0	0	100	90-100	65-90	60-85	40-50	NP-5
	6-18	*Medial silt loam	*ML	*A-5	0	0-10	85-100	75-100	65-90	60-85	40-50	NP-5
	18-22	*Medial silt loam, gravelly medial silt loam	*ML	*A-5	0	0-10	85-100	75-100	65-90	60-85	40-50	NP-5
	22-30	*Very cobbly sandy loam, very gravelly sandy loam	*SC-SM, GM	*A-1, A-2	0-10	15-45	50-65	45-60	30-40	15-25	20-30	NP-10
	30-42	*Extremely stony sandy loam, extremely cobbly sandy loam	*GW-GC, GW-GM	*A-1, A-2	15-50	20-45	30-45	25-40	10-25	10-15	20-30	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brickel---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-3	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0	45-60	40-60	40-60	30-50	30-40	NP-5
	3-9	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0	45-60	40-60	35-60	30-50	30-40	NP-5
	9-19	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-15	20-40	15-35	15-35	15-30	30-40	NP-5
	19-27	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-15	20-40	15-35	15-35	15-30	30-40	NP-5
	27-31	*Very cobbly ashy very fine sandy loam, very gravelly ashy very fine sandy loam, very cobbly very fine sandy loam	*GM	*A-1, A-2	0	45-65	30-50	25-45	20-40	15-30	30-40	NP-5
	31-41	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5090:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5090:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5090:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5091:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5091:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5091:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5091:												
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5092:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5092:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5092:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5093:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5093:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5093:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5093:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5094:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5094:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5094:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5094:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5102:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5102:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5102:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5102:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5102:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5103:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5103:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5103:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5103:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5103:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5104:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5104:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5104:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5104:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5104:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5105:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5105:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5105:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5105:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5105:												
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5110:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5110:												
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5111:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Nakarna---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	4-15	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	15-19	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	19-33	*Sandy loam, fine sandy loam, gravelly loam	*SM, CL-ML	*A-4	0	0	75-95	70-90	55-85	35-60	20-25	NP-5
	33-44	*Paragravelly sandy loam, gravelly sandy loam, sandy loam	*SM	*A-2	0	0	70-80	65-75	55-70	25-35	20-25	NP-5
	44-54	*Paragravelly loamy coarse sand, very paragravelly loamy coarse sand, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0	65-95	60-90	45-70	20-35	0-0	NP
	54-64	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5111:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5112:												
Bouldercreek, dry----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-7	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	7-15	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	15-23	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	23-27	*Very gravelly sandy loam, very gravelly loam, very cobbly sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	27-54	*Very gravelly sandy loam, very cobbly sandy loam, extremely cobbly sandy loam	*GM	*A-1	0-10	10-50	45-55	40-50	25-35	10-20	20-30	NP-5
	54-63	*Extremely cobbly sandy loam, extremely stony sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5112:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5112:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5112:												
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5113:												
Bouldercreek, dry----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-7	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	7-15	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	15-23	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	23-27	*Very gravelly sandy loam, very gravelly loam, very cobbly sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	27-54	*Very gravelly sandy loam, very cobbly sandy loam, extremely cobbly sandy loam	*GM	*A-1	0-10	10-50	45-55	40-50	25-35	10-20	20-30	NP-5
	54-63	*Extremely cobbly sandy loam, extremely stony sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5113:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5113:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5114:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Bouldercreek, dry----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-7	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	7-15	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	15-23	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	23-27	*Very gravelly sandy loam, very gravelly loam, very cobbly sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	27-54	*Very gravelly sandy loam, very cobbly sandy loam, extremely cobbly sandy loam	*GM	*A-1	0-10	10-50	45-55	40-50	25-35	10-20	20-30	NP-5
	54-63	*Extremely cobbly sandy loam, extremely stony sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5114:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5114:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5114:												
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5120:												
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5120:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5120:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kruse-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5120:												
Nakarna---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	4-15	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	15-19	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-95	60-90	30-40	NP-5
	19-33	*Sandy loam, fine sandy loam, gravelly loam	*SM, CL-ML	*A-4	0	0	75-95	70-90	55-85	35-60	20-25	NP-5
	33-44	*Paragravelly sandy loam, gravelly sandy loam, sandy loam	*SM	*A-2	0	0	70-80	65-75	55-70	25-35	20-25	NP-5
	44-54	*Paragravelly loamy coarse sand, very paragravelly loamy coarse sand, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0	65-95	60-90	45-70	20-35	0-0	NP
	54-64	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5121:												
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5121:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5121:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5121:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5122:												
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5122:												
Brevco----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	4-8	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM	*A-1	0	0	60-75	50-65	30-50	15-25	15-30	NP-5
	8-14	*Very gravelly ashy coarse sandy loam, very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-55	30-50	20-30	10-20	15-30	NP-5
	14-21	*Very gravelly coarse sandy loam, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-15	40-60	30-50	20-30	10-20	0-20	NP-5
	21-37	*Extremely gravelly coarse sandy loam, extremely gravelly loamy coarse sand, very cobbly coarse sandy loam	*GM	*A-1	0	5-25	30-60	25-50	15-30	5-20	0-20	NP-5
	37-47	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5122:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5122:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5123:												
Kellerbutte-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-5	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	75-95	60-90	30-40	NP-5
	5-11	*Ashy silt loam, ashy sandy loam, gravelly ashy silt loam	*ML	*A-4, A-1	0	0	60-80	55-75	40-70	25-55	30-40	NP-5
	11-17	*Gravelly ashy silt loam, gravelly ashy sandy loam	*GM	*A-4, A-1	0	0-10	55-65	50-60	35-55	25-50	30-40	NP-5
	17-23	*Very gravelly sandy loam, very cobbly sandy loam	*GM	*A-1	0	15-30	50-55	45-50	30-40	15-25	15-20	NP-5
	23-45	*Very cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0	15-40	45-55	40-50	30-40	15-25	15-20	NP-5
	45-63	*Extremely cobbly loamy sand, very gravelly loamy sand, extremely gravelly loamy coarse sand	*GP-GM, GM	*A-1	0	20-55	30-55	25-50	15-30	5-15	0-0	NP
	63-73	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5123:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---
Blackprince-----	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0	60-75	55-70	35-50	15-30	15-30	NP-5
	5-19	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0	40-50	35-45	15-30	10-15	15-30	NP-5
	19-26	*Very gravelly coarse sandy loam, very gravelly sandy loam	*GM	*A-1	0	0-10	35-50	30-45	15-30	10-15	15-25	NP-5
	26-36	*Very gravelly loamy coarse sand, very gravelly sandy loam, extremely gravelly coarse sandy loam	*GW-GM	*A-1	0	0-15	30-50	25-45	15-30	5-15	0-10	NP-5
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5123:												
Ardtoo----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Gravelly ashy sandy loam	*SM	*A-2	0	0	70-80	65-75	40-55	25-30	15-30	NP-5
	4-7	*Gravelly ashy sandy loam, gravelly ashy coarse sandy loam	*SM, GM	*A-1, A-2	0	0	55-80	50-75	35-55	20-30	15-30	NP-5
	7-15	*Very gravelly ashy sandy loam, very gravelly ashy coarse sandy loam	*GM	*A-1	0	0-15	45-55	40-50	25-35	15-20	15-30	NP-5
	15-21	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly coarse sandy loam	*GM	*A-1	0	20-40	45-55	40-50	25-35	15-20	15-20	NP-5
	21-37	*Very gravelly coarse sandy loam, very cobbly coarse sandy loam, extremely gravelly coarse sandy loam	*GW-GM, GP-GM	*A-1	0-15	0-30	25-55	15-45	10-30	5-15	15-20	NP-5
	37-51	*Very gravelly loamy coarse sand, very cobbly coarse sandy loam, extremely gravelly loamy coarse sand	*GP-GM, GP	*A-1	0-15	0-30	25-55	15-45	10-30	0-15	15-20	NP-5
	51-61	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5123:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5123:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5130:												
Brodeer---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	70-90	25-45	NP-5
	4-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	8-18	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	18-26	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	26-32	*Fine gravelly sandy loam, loam, sandy loam, fine gravelly loam, gravelly loam, gravelly sandy loam	*CL-ML, SC-SM	*A-4	0	0	70-100	60-90	55-85	35-65	25-30	5-10
	32-47	*Fine gravelly loam, loam, sandy loam, fine gravelly sandy loam, gravelly loam, gravelly sandy loam	*CL-ML, SC-SM	*A-4	0	0	70-100	60-90	55-85	35-65	25-30	5-10
	47-61	*Fine gravelly sandy loam, loam, gravelly loam, sandy loam, fine gravelly loam, gravelly sandy loam	*SC-SM, SM	*A-2	0	0	70-100	60-90	45-75	25-45	15-20	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5130:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5130:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5130:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5140:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5140:												
Hysing, dry-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	100	85-100	80-95	70-90	30-40	NP-5
	6-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	18-28	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	28-31	*Very gravelly sandy loam, very gravelly loamy sand	*SW-SM, SP-SM	*A-1	0	0	85-95	25-55	15-35	5-15	0-15	NP
	31-47	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	*SW-SM, SP, SP-SM	*A-1	0	0	85-95	25-50	15-35	0-10	0-0	NP
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brodeer---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	70-90	25-45	NP-5
	4-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	8-18	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	18-26	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	26-32	*Fine gravelly sandy loam, loam, sandy loam, fine gravelly loam, gravelly loam, gravelly sandy loam	*CL-ML, SC-SM	*A-4	0	0	70-100	60-90	55-85	35-65	25-30	5-10
	32-47	*Fine gravelly loam, loam, sandy loam, fine gravelly sandy loam, gravelly loam, gravelly sandy loam	*CL-ML, SC-SM	*A-4	0	0	70-100	60-90	55-85	35-65	25-30	5-10
	47-61	*Fine gravelly sandy loam, loam, gravelly loam, sandy loam, fine gravelly loam, gravelly sandy loam	*SC-SM, SM	*A-2	0	0	70-100	60-90	45-75	25-45	15-20	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5140:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5140:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5141:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5141:												
Hysing----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	100	85-100	80-95	70-90	30-40	NP-5
	6-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	18-28	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	28-31	*Very gravelly sandy loam, very gravelly loamy sand	*SW-SM, SP-SM	*A-1	0	0	85-95	25-55	15-35	5-15	0-15	NP
	31-47	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	*SW-SM, SP, SP-SM	*A-1	0	0	85-95	25-50	15-35	0-10	0-0	NP
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5141:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5141:												
Brodeer---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	70-90	25-45	NP-5
	4-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	8-18	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	18-26	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	75-100	60-90	25-45	NP-5
	26-32	*Fine gravelly sandy loam, loam, sandy loam, fine gravelly loam, gravelly loam, gravelly sandy loam	*CL-ML, SC-SM	*A-4	0	0	70-100	60-90	55-85	35-65	25-30	5-10
	32-47	*Fine gravelly loam, loam, sandy loam, fine gravelly sandy loam, gravelly loam, gravelly sandy loam	*CL-ML, SC-SM	*A-4	0	0	70-100	60-90	55-85	35-65	25-30	5-10
	47-61	*Fine gravelly sandy loam, loam, gravelly loam, sandy loam, fine gravelly loam, gravelly sandy loam	*SC-SM, SM	*A-2	0	0	70-100	60-90	45-75	25-45	15-20	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5142:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5142:												
Hysing----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	100	85-100	80-95	70-90	30-40	NP-5
	6-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	18-28	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	28-31	*Very gravelly sandy loam, very gravelly loamy sand	*SW-SM, SP-SM	*A-1	0	0	85-95	25-55	15-35	5-15	0-15	NP
	31-47	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	*SW-SM, SP, SP-SM	*A-1	0	0	85-95	25-50	15-35	0-10	0-0	NP
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5142:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5142:												
Hysing, dry-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	100	85-100	80-95	70-90	30-40	NP-5
	6-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	18-28	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	28-31	*Very gravelly sandy loam, very gravelly loamy sand	*SW-SM, SP-SM	*A-1	0	0	85-95	25-55	15-35	5-15	0-15	NP
	31-47	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	*SW-SM, SP, SP-SM	*A-1	0	0	85-95	25-50	15-35	0-10	0-0	NP
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5143:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5143:												
Hysing, dry-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	100	85-100	80-95	70-90	30-40	NP-5
	6-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	18-28	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	28-31	*Very gravelly sandy loam, very gravelly loamy sand	*SW-SM, SP-SM	*A-1	0	0	85-95	25-55	15-35	5-15	0-15	NP
	31-47	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	*SW-SM, SP, SP-SM	*A-1	0	0	85-95	25-50	15-35	0-10	0-0	NP
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5143:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5143:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5144:												
Jacot, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5144:												
Hysing, dry-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Ashy silt loam	*ML	*A-4	0	0	100	85-100	80-95	70-90	30-40	NP-5
	6-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	18-28	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	85-100	60-90	45-75	30-40	NP-5
	28-31	*Very gravelly sandy loam, very gravelly loamy sand	*SW-SM, SP-SM	*A-1	0	0	85-95	25-55	15-35	5-15	0-15	NP
	31-47	*Very gravelly coarse sand, very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	*SW-SM, SP, SP-SM	*A-1	0	0	85-95	25-50	15-35	0-10	0-0	NP
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5144:												
Boulderjud, dry	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-7	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	7-17	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	17-29	*Very cobbly sandy loam, very gravelly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	29-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-44	*Very gravelly loamy coarse sand, very gravelly loamy sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	44-54	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5144:												
Jacot----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	100	75-100	70-95	65-90	30-40	NP-5
	10-18	*Ashy silt loam, ashy fine sandy loam	*ML, SM	*A-4	0	0	100	75-100	60-90	45-75	30-40	NP-5
	18-24	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	24-39	*Gravelly sandy loam, fine sandy loam, fine gravelly sandy loam, gravelly loam, sandy loam	*SM, SC-SM	*A-1, A-2	0	0	65-95	60-90	35-65	15-35	15-25	NP-5
	39-50	*Gravelly sandy loam, gravelly loamy sand, fine gravelly sandy loam	*SM, SP-SM	*A-1, A-2	0	0	65-80	60-75	35-60	10-30	15-20	NP-5
	50-59	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP
	59-62	*Fine gravelly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand, very gravelly loamy coarse sand	*SM, GP-GM	*A-1	0	0	45-75	35-60	15-40	5-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5211:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Keeler, dry-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5211:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5212:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Keeler----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5212:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5213:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Keeler, dry-----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5213:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Quinnamose------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-9	*Ashy loam	*ML	*A-4	0	0	90-100	80-100	75-95	55-75	20-30	NP-5
	9-12	*Ashy sandy loam, ashy loam, gravelly ashy loam	*SM, ML	*A-4	0	0	85-95	65-95	55-85	35-70	20-30	NP-5
	12-31	*Sandy loam, loam, paragravelly sandy loam, gravelly loam, gravelly sandy loam	*SM	*A-4	0	0	85-95	70-90	55-85	35-60	20-30	NP-5
	31-51	*Paragravelly sandy loam, loam, gravelly sandy loam, gravelly loam	*SM	*A-2, A-4	0	0	80-95	70-90	55-85	25-60	20-30	NP-5
	51-58	*Very paragravelly sandy loam, gravelly sandy loam, gravelly loam, loam	*SM	*A-2, A-4	0	0	70-95	60-90	45-85	25-55	20-30	NP-5
	58-68	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5213:												
Boulderjud------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-6	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	80-100	75-100	70-90	25-45	NP-5
	6-16	*Ashy silt loam	*ML	*A-4, A-5	0	0	90-100	75-100	75-100	60-90	25-45	NP-5
	16-26	*Very gravelly sandy loam, very cobbly sandy loam, very gravelly loam	*SM	*A-1, A-2	0	0-30	50-75	35-65	20-50	10-30	15-20	NP-5
	26-36	*Very gravelly sandy loam	*GM	*A-1	0	0-30	45-55	30-45	15-30	5-20	0-20	NP-5
	36-56	*Very gravelly loamy sand, very gravelly loamy coarse sand, very cobbly loamy sand	*GP-GM, GM	*A-1	0	0-30	40-55	30-45	15-30	5-15	0-15	NP
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
5310:												
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5310:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5310:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
5313:												
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5313:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5313:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Clayton---------	0-5	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	5-8	*Ashy fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	55-85	40-55	15-25	NP-5
	8-29	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	29-42	*Sandy loam, fine sandy loam	*SM, ML	*A-4	0	0	100	80-100	45-75	40-55	15-15	NP
	42-52	*Loamy sand, loamy fine sand	*SM	*A-2	0	0-5	90-100	80-100	40-70	20-35	15-15	NP
	52-62	*Loamy fine sand, sand, gravelly loamy sand	*SM	*A-2	0	0-10	90-100	75-100	40-70	20-35	15-15	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5313:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kruse-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5314:												
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5314:												
Lenz----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, extremely cobbly sandy loam, very gravelly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5314:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
5321:												
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---
Uhlig-----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5321:												
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Bong, moist-----	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5321:												
Endoaquolls, deep----------	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, silt loam, fine sandy loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, silt loam, gravelly fine sandy loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, silt loam, gravelly sandy loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, gravelly coarse sandy loam, very gravelly sandy loam, loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-55	*Bedrock	---	---	---	---	---	---	---	---	---	---
5322:												
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5322:												
Skalan----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-9	*Gravelly ashy loam	*ML, GM	*A-4	0	0	55-75	50-70	45-65	40-50	25-35	NP-5
	9-16	*Gravelly ashy loam, very gravelly ashy loam	*GM, GC-GM	*A-4	0	0	50-70	45-65	45-65	40-50	25-35	5-10
	16-23	*Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	23-31	*Very gravelly loam, very gravelly sandy clay loam, very gravelly clay loam	*GC	*A-2	0	0-10	30-55	25-50	20-45	15-35	30-40	10-20
	31-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
	36-46	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, gravelly sandy loam, sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	0-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	0-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Uhlig-----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5322:												
Endoaquolls, deep----------	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, silt loam, fine sandy loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, silt loam, gravelly fine sandy loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, silt loam, gravelly sandy loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, gravelly coarse sandy loam, very gravelly sandy loam, loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-55	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
5412:												
Keeler----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5412:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5412:												
Santa----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	9-16	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	16-25	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	25-27	*Silt, silt loam	*CL-ML	*A-4	0	0	100	100	95-100	95-100	20-30	5-10
	27-39	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	25-40	10-20
	39-65	*Silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	90-100	85-100	80-100	35-45	10-20
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5413:												
Keeler----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10
Kruse-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5413:												
Bouldercreek, dry----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-7	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	7-15	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	15-23	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	23-27	*Very gravelly sandy loam, very gravelly loam, very cobbly sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	27-54	*Very gravelly sandy loam, very cobbly sandy loam, extremely cobbly sandy loam	*GM	*A-1	0-10	10-50	45-55	40-50	25-35	10-20	20-30	NP-5
	54-63	*Extremely cobbly sandy loam, extremely stony sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5413:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
5414:												
Keeler----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5414:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5414:												
Micapeak--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-7	*Gravelly ashy loam	*ML	*A-4	0	0	70-80	60-75	50-70	40-50	20-30	NP-5
	7-13	*Gravelly ashy loam, gravelly ashy silt loam, ashy loam	*SM, ML	*A-2, A-4	0	0	70-85	60-80	50-75	35-65	20-30	NP-5
	13-22	*Gravelly loam, coarse sandy loam, sandy loam	*SM	*A-2, A-4, A-1	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	22-33	*Gravelly loam, gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1, A-4	0	0	60-90	55-85	40-65	20-50	15-20	NP-5
	33-39	*Gravelly sandy loam, paragravelly sandy loam, gravelly coarse sandy loam	*SM	*A-1, A-2	0	0	60-80	55-75	40-55	20-30	15-20	NP-5
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5512:												
Santa----------	0-8	*Ashy silt loam	*ML	*A-4	0	0	100	100	93-100	88-96	30-40	NP-5
	8-19	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-96	24-32	7-12
	19-29	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	97-100	92-98	21-29	6-10
	29-38	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	96-100	95-100	87-100	84-100	29-45	12-24
	38-59	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	94-100	92-100	85-100	81-100	28-45	12-24
Cavendish-------	0-8	*Ashy silt loam	*ML	*A-4	0	0	82-100	81-100	71-95	56-76	30-40	NP-5
	8-30	*Silt loam, gravelly silt loam, silty clay loam	*CL, GC	*A-6, A-7	0	0	63-91	61-91	56-91	48-80	31-41	13-20
	30-43	*Gravelly silt loam, silty clay loam, very cobbly silt loam	*GC, CL	*A-6, A-2	0	0-26	42-73	39-72	36-71	31-63	31-40	13-20
	43-59	*Bedrock	---	---	---	---	---	---	---	---	---	---
Crumarine-------	0-7	*Ashy silt loam	*ML	*A-4	0	0	100	100	92-99	84-91	30-40	NP-5
	7-24	*Loam, silt loam	*CL-ML, CL	*A-4, A-6	0	0	96-100	96-100	80-96	56-71	21-36	4-14
	24-47	*Loam, very gravelly sandy loam, loamy sand	*CL-ML, GM, CL	*A-4, A-2, A-6	0	0-14	66-95	65-94	57-94	35-66	18-35	2-13
	47-59	*Gravelly loamy sand, sandy loam, very gravelly coarse sand	*SM, GP-GM, SC	*A-2, A-1	0	0-12	39-84	36-84	28-75	10-34	0-31	NP-10
Reggear---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-4	*Ashy silt loam	*ML, MH	*A-5, A-4	0	0	94-100	93-100	92-100	80-94	40-55	NP-5
	4-8	*Ashy silt loam	*ML	*A-4	0	0	94-100	93-100	92-100	80-94	30-40	NP-5
	8-18	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	94-100	93-100	87-100	81-95	24-34	7-14
	18-31	*Silt loam	*CL	*A-6, A-4	0	0	86-100	84-100	79-100	73-98	28-40	10-19
	31-59	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	96-100	95-100	86-100	82-100	32-50	13-28
Santa, dry------	0-8	*Ashy silt loam	*ML	*A-4	0	0	100	100	93-100	88-96	30-40	NP-5
	8-19	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-96	24-32	7-12
	19-29	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	97-100	92-98	21-29	6-10
	29-38	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	96-100	95-100	87-100	84-100	29-45	12-24
	38-59	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	94-100	92-100	85-100	81-100	28-45	12-24

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5513:												
Santa----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	9-16	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	16-25	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	25-27	*Silt, silt loam	*CL-ML	*A-4	0	0	100	100	95-100	95-100	20-30	5-10
	27-39	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	25-40	10-20
	39-65	*Silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	90-100	85-100	80-100	35-45	10-20
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML, SM	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6, A-4	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6, A-4	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6, A-4	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-1, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM, SC-SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5513:												
Taney----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-59	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
5602:												
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20
Santa----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	9-16	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	16-25	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	25-27	*Silt, silt loam	*CL-ML	*A-4	0	0	100	100	95-100	95-100	20-30	5-10
	27-39	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	25-40	10-20
	39-65	*Silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	90-100	85-100	80-100	35-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5602:												
Keeler----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10
Kruse-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy loam, loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, very gravelly sandy loam, coarse sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5602:												
Lakestarr, dry--	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20
Fluvaquents, frigid---------	0-1	*Sandy loam	*SM, SC-SM	*A-2, A-1, A-4	0	0	90-100	85-100	50-70	25-40	0-25	NP-5
	1-4	*Sand, loam, sandy loam	*SP-SM, CL-ML	*A-3, A-4, A-1	0	0	80-100	75-100	40-95	5-75	0-25	NP-5
	4-12	*Sandy loam, gravelly fine sandy loam, very gravelly coarse sand	*SM, GP-GM, CL-ML	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	12-21	*Sandy loam, very gravelly coarse sand, gravelly fine sandy loam	*SM, GP-GM, CL-ML	*A-1, A-4	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	21-31	*Sandy loam, very gravelly coarse sand, gravelly fine sandy loam	*SM, GP-GM, CL-ML	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	31-40	*Stratified fine sandy loam to coarse sand, very gravelly coarse sand, gravelly fine sandy loam	*SM, GP-GM, CL-ML	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5
	40-60	*Stratified coarse sand to sandy loam, gravelly sandy loam, very gravelly coarse sand	*SM, CL-ML, GP-GM	*A-1, A-4	0	0-25	35-100	30-100	15-85	5-55	0-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5602:												
Lovell----------	0-2	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	2-8	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	8-19	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	19-24	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-15
	24-30	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-20
	30-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-25
	42-52	*Silty clay loam, loam, silt loam	*CL	*A-6, A-7	0	0	100	100	85-100	80-100	30-45	15-25
	52-61	*Silty clay loam, loam, silt loam	*CL	*A-7, A-6	0	0	100	100	85-100	80-100	30-45	15-25
5603:												
Lakestarr-------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, sandy loam, gravelly sandy clay loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20
Santa-----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	9-16	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	16-25	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	25-27	*Silt, silt loam	*CL-ML	*A-4	0	0	100	100	95-100	95-100	20-30	5-10
	27-39	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	25-40	10-20
	39-65	*Silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	90-100	85-100	80-100	35-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5603:												
Keeler----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-4	*Fine gravelly ashy loam	*SC-SM, SM	*A-4	0	0	100	60-70	55-65	35-50	15-25	NP-10
	4-9	*Fine gravelly ashy loam, ashy loam	*SC-SM, SM	*A-4	0	0	100	60-85	55-75	40-60	15-25	NP-10
	9-16	*Fine gravelly loam, fine gravelly sandy loam, loam	*SC	*A-6, A-2	0	0	100	55-85	35-65	25-50	20-30	10-15
	16-30	*Fine gravelly sandy loam, fine gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	100	55-85	35-70	15-35	25-30	10-15
	30-50	*Fine gravelly sandy clay loam, fine gravelly sandy loam	*SC	*A-2	0	0	100	55-75	35-65	15-35	30-35	10-20
	50-60	*Very gravelly coarse sandy loam, fine gravelly sandy loam	*SC-SM, SM	*A-1, A-2	0	0	100	30-75	15-45	15-25	15-25	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5603:												
Kruse----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-10	*Ashy silt loam	*ML	*A-4	0	0	85-100	70-90	65-85	55-80	20-35	NP-5
	10-15	*Ashy sandy loam, ashy loam, gravelly ashy sandy loam	*ML	*A-4	0	0	70-100	65-85	55-80	40-70	20-35	NP-5
	15-23	*Gravelly sandy clay loam, loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	25-40	10-15
	23-32	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	30-40	10-15
	32-46	*Gravelly sandy clay loam, clay loam, gravelly loam	*CL, SC	*A-6	0	0	75-100	70-90	55-85	45-65	28-40	10-15
	46-52	*Gravelly sandy loam, very gravelly sandy loam, loam, gravelly sandy clay loam	*SC-SM, SC	*A-2, A-6	0	0	75-100	70-90	50-80	20-50	20-40	5-15
	52-61	*Gravelly sandy loam, Coarse sandy loam, very gravelly sandy loam	*SM	*A-2, A-1	0	0	70-100	60-85	40-60	20-35	15-20	1-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5603:												
Bouldercreek----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-9	*Ashy silt loam	*ML	*A-4	0	0	80-100	75-100	70-90	55-75	25-40	NP-5
	9-19	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	55-75	25-40	NP-5
	19-25	*Ashy silt loam, gravelly ashy silt loam	*ML, GM	*A-4	0	0-15	55-85	50-80	45-75	40-70	25-40	NP-5
	25-33	*Very gravelly sandy loam, very gravelly loam, very cobbly coarse sandy loam	*GM	*A-1, A-2	0-10	10-25	40-75	35-65	30-60	15-35	20-30	NP-5
	33-50	*Extremely cobbly sandy loam, very gravelly loam, very stony sandy loam	*GM	*A-1, A-2	0-30	10-50	45-55	40-50	30-40	15-30	20-30	NP-5
	50-63	*Extremely stony sandy loam, extremely cobbly sandy loam, extremely stony loamy sand	*GP-GM	*A-1	15-50	15-50	35-45	30-40	20-30	5-15	0-20	NP-5
Lakestarr, dry--	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-10	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-100	70-95	30-40	NP-5
	10-15	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	80-100	75-100	75-100	65-95	30-40	NP-5
	15-24	*Silt loam, loam	*CL-ML, CL	*A-4	0	0	85-100	80-100	75-100	65-95	20-30	5-10
	24-39	*Loam, silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	75-95	60-90	25-30	10-15
	39-47	*Loam, sandy clay loam	*CL, SC	*A-6, A-4	0	0	95-100	90-100	70-95	40-75	30-40	10-20
	47-55	*Loam, sandy clay loam	*CL, SC	*A-6	0	0	90-95	85-95	70-90	35-65	30-40	10-20
	55-65	*Sandy clay loam, gravelly sandy clay loam, sandy loam	*SC	*A-2	0	0	85-95	70-85	45-75	25-35	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
5603:												
Taney----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
6001:												
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Lance----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6001:												
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
6002:												
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6002:												
Lance----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6002:												
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
6003:												
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6003:												
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6004:												
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6004:												
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
6010:												
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6010:												
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Santa----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	9-16	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	16-25	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	25-27	*Silt, silt loam	*CL-ML	*A-4	0	0	100	100	95-100	95-100	20-30	5-10
	27-39	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	25-40	10-20
	39-65	*Silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	90-100	85-100	80-100	35-45	10-20
Lovell----------	0-2	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	2-8	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	8-19	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	19-24	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-15
	24-30	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-20
	30-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-25
	42-52	*Silty clay loam, loam, silt loam	*CL	*A-6, A-7	0	0	100	100	85-100	80-100	30-45	15-25
	52-61	*Silty clay loam, loam, silt loam	*CL	*A-7, A-6	0	0	100	100	85-100	80-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6010:												
Aquepts, frigid	0-4	*Ashy loam	*ML	*A-4	0	0	85-100	80-100	65-95	50-75	20-35	NP-10
	4-12	*Ashy loam, ashy sandy loam	*ML	*A-4	0	0	85-100	80-100	45-95	25-75	20-35	NP-10
	12-17	*Ashy loam, ashy sandy loam	*ML	*A-4	0	0	85-100	80-100	45-95	25-75	20-35	NP-10
	17-27	*Sandy loam, loam	*SC-SM	*A-2	0	0	85-100	80-100	45-95	25-75	0-25	NP-5
	27-40	*Loamy sand, cobbly coarse sand, very gravelly loamy coarse sand	*SM	*A-1, A-3	0	0-15	55-100	50-90	25-70	0-25	0-10	NP
	40-50	*Gravelly loamy coarse sand, very gravelly coarse sand, cobbly loamy sand	*SM	*A-1, A-2	0	0-15	50-95	45-90	25-70	0-25	0-10	NP
	50-60	*Very gravelly coarse sand, gravelly loamy coarse sand, cobbly loamy sand	*GP-GM	*A-1, A-2	0	0-15	50-95	45-90	25-70	0-25	0-10	NP
6011:												
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6011:												
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25
Lovell----------	0-2	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	2-8	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	8-19	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	19-24	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-15
	24-30	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-20
	30-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-25
	42-52	*Silty clay loam, loam, silt loam	*CL	*A-6, A-7	0	0	100	100	85-100	80-100	30-45	15-25
	52-61	*Silty clay loam, loam, silt loam	*CL	*A-7, A-6	0	0	100	100	85-100	80-100	30-45	15-25
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6012:												
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6012:												
Taney----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
Lovell----------	0-2	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	2-8	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	8-19	*Ashy silt loam	*CL	*A-6	0	0	100	100	98-100	90-100	30-40	10-20
	19-24	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-15
	24-30	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-20
	30-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	30-45	15-25
	42-52	*Silty clay loam, loam, silt loam	*CL	*A-6, A-7	0	0	100	100	85-100	80-100	30-45	15-25
	52-61	*Silty clay loam, loam, silt loam	*CL	*A-7, A-6	0	0	100	100	85-100	80-100	30-45	15-25
Santa----------	0-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	95-100	20-30	NP-10
	9-16	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	16-25	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	95-100	25-30	5-10
	25-27	*Silt, silt loam	*CL-ML	*A-4	0	0	100	100	95-100	95-100	20-30	5-10
	27-39	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	25-40	10-20
	39-65	*Silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	90-100	85-100	80-100	35-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6021:												
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
Naff------------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6021:												
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
6031:												
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
Naff------------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6031:												
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
6040:												
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6040:												
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Southwick-------	0-6	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	6-14	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	14-22	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	22-27	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	90-100	20-30	5-10
	27-32	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-7
	32-36	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	36-48	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	48-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6040:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
6041:												
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25
Southwick-------	0-6	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	6-14	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	14-22	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	22-27	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	90-100	20-30	5-10
	27-32	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-7
	32-36	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	36-48	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	48-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6041:												
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, loam, silty clay loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6041:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
6042:												
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25
Southwick-------	0-6	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	6-14	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	14-22	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	22-27	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	90-100	20-30	5-10
	27-32	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-7
	32-36	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	36-48	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	48-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6042:												
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
Gibbs-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML	*A-4	0	0	95-100	90-100	90-100	70-90	20-35	5-10
	5-13	*Ashy silt loam, ashy loam	*CL-ML	*A-4	0	0	95-100	90-100	85-100	65-90	20-35	5-10
	13-20	*Silty clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	55-85	25-35	10-15
	20-31	*Silty clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	90-100	85-100	75-90	55-85	25-35	10-15
	31-35	*Very gravelly silt loam, very cobbly silty clay loam, very gravelly loam	*GC	*A-6, A-2	0	0-40	40-60	35-55	35-50	25-50	25-35	10-15
	35-45	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6042:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
6043:												
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6043:												
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Southwick-------	0-6	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	6-14	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	14-22	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	22-27	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	90-100	20-30	5-10
	27-32	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-7
	32-36	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	36-48	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	48-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	30-40	10-20
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6043:												
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
6045:												
Southwick-------	0-6	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	6-14	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	14-22	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	22-27	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	90-100	20-30	5-10
	27-32	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-7
	32-36	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	36-48	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	48-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6045:												
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Freeman---------	0-2	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	2-9	*Ashy silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	9-15	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	15-21	*Silt loam	*ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	21-29	*Silty clay loam, silt loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	25-45	5-20
	29-39	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	39-53	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	53-62	*Silty clay loam, silty clay	*CL	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6045:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
6050:												
Tilma-----------	0-8	*Silt loam	*CL	*A-6, A-4	0	0	100	100	100	95-100	20-30	10-15
	8-14	*Silt loam	*CL	*A-6, A-4	0	0	100	100	100	95-100	20-30	10-15
	14-20	*Silt loam	*CL	*A-4, A-6	0	0	100	100	100	90-100	20-30	10-12
	20-23	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	100	90-100	20-30	5-12
	23-30	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	100	95-100	45-55	25-35
	30-34	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	100	95-100	45-55	25-35
	34-42	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	100	95-100	40-55	20-35
	42-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	100	95-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6050:												
Latah----------	0-10	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	10-14	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	14-19	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	19-22	*Silt loam, silt	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	22-31	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-25
	31-38	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	38-60	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-30
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
Naff----------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6050:												
Cald	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-25
6061:												
Naff	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Staley	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
Thatuna	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6061:												
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6061:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
6062:												
Naff------------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6062:												
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
Cald------------	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6062:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
6064:												
Naff------------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6064:												
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
Cald------------	0-7	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6067:												
Naff----------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6067:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
Cald------------	0-7	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
6068:												
Naff------------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6068:												
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6068:												
Staley----------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	7-12	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	30-35	10-15
	12-23	*Silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	10-15
	23-37	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
	37-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-30	5-15
6072:												
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Lance----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6073:												
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Mondovi---------	0-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	5-10
	17-26	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	26-38	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	38-48	*Ashy silt loam, silt loam	*ML	*A-4	0	0	100	100	98-100	95-100	20-35	NP-10
	48-60	*Ashy silt loam, silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6073:												
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
6074:												
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6074:												
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
6080:												
Nez Perce-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	10-19	*Silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
	19-30	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-60	20-35
	30-42	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
	42-60	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
Brincken, moist	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6080:												
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Uhlig----------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
6093:												
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6093:												
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6094:												
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6094:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
6096:												
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6096:												
Lance----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6110:												
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6110:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
6111:												
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6111:												
Lance----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
Naff----------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Hanning---------	0-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	9-17	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-30	5-10
	17-24	*Silt loam	*CL	*A-4	0	0	100	100	98-100	90-100	25-30	5-10
	24-35	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	35-45	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15
	45-63	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6112:												
Broadax---------	0-7	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	7-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-28	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
	28-33	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	90-100	85-100	30-45	10-20
	33-60	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	85-100	80-100	75-100	70-100	25-35	6-15
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Lance-----------	0-9	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	9-14	*Extremely parachannery silt loam, parachannery silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	85-95	25-35	10-15
	14-22	*Very parachannery silt loam, parachannery silt loam	*CL	*A-4, A-6	0	0	100	100	95-100	85-95	25-30	8-15
	22-40	*Silt loam, very parachannery silt loam	*CL, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-30	7-10
	40-60	*Silt loam, very parachannery silt loam	*CL-ML	*A-4	0	0	100	100	95-100	85-95	20-25	4-7
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6112:												
Naff----------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
6130:												
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
Naff----------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6130:												
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20
6131:												
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6131:												
Naff----------	0-8	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	8-17	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	17-26	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	26-61	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	100	93-100	90-100	35-45	15-25
	61-80	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Garfield--------	0-5	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	5-8	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	30-50	10-25
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6131:												
Cald----------	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-25
6140:												
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6140:												
Southwick-------	0-6	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	6-14	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	14-22	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	22-27	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	90-100	20-30	5-10
	27-32	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-7
	32-36	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	36-48	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	48-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	30-40	10-20
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Gibbs-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-5	*Ashy silt loam	*CL-ML	*A-4	0	0	95-100	90-100	90-100	70-90	20-35	5-10
	5-13	*Ashy silt loam, ashy loam	*CL-ML	*A-4	0	0	95-100	90-100	85-100	65-90	20-35	5-10
	13-20	*Silty clay loam, loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	55-85	25-35	10-15
	20-31	*Silty clay loam, silt loam, loam	*CL	*A-6, A-4	0	0	90-100	85-100	75-90	55-85	25-35	10-15
	31-35	*Very gravelly silt loam, very cobbly silty clay loam, very gravelly loam	*GC	*A-6, A-2	0	0-40	40-60	35-55	35-50	25-50	25-35	10-15
	35-45	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6141:												
Driscoll--------	0-3	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	3-10	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	10-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	90-100	20-35	5-15
	26-27	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	27-37	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-55	20-30
	37-45	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	95-100	95-100	95-100	40-55	20-30
	45-50	*Silty clay loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	35-50	15-25
	50-60	*Silty clay loam	*CL	*A-6, A-7	0	0	95-100	90-100	90-100	90-100	35-50	15-25
Larkin----------	0-4	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	4-9	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	9-14	*Silt loam	*CL-ML	*A-4	0	0	100	100	98-100	90-100	20-35	5-10
	14-19	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-20
	19-34	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
	34-64	*Silty clay loam, silt loam	*CL	*A-7, A-6	0	0	100	95-100	95-100	95-100	30-45	15-25
Southwick-------	0-6	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	6-14	*Ashy silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	14-22	*Silt loam	*CL-ML	*A-4	0	0	100	100	95-100	90-100	20-35	5-10
	22-27	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	95-100	90-100	20-30	5-10
	27-32	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-7
	32-36	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	36-48	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-20
	48-60	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	95-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6141:												
Cald----------	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-25
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Latah----------	0-10	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	10-14	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	14-19	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	19-22	*Silt loam, silt	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	22-31	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-25
	31-38	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	38-60	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6200:												
Morical---------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-100	20-35	NP-10
	6-12	*Ashy silt loam, silt loam, loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	60-100	20-35	NP-10
	12-18	*Silt loam, paragravelly clay loam, clay loam, loam	*CL	*A-6, A-7, A-4	0	0	75-100	70-100	60-100	50-90	30-45	10-20
	18-27	*Very paragravelly sandy clay loam, paragravelly clay loam, sandy loam, loam	*CL, SC	*A-6, A-2, A-7	0	0	75-100	70-100	50-90	25-75	30-45	10-20
	27-37	*Bedrock	---	---	---	---	---	---	---	---	---	---
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6200:												
Reardan---------	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	90-100	25-35	7-15
	10-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	7-15
	15-18	*Silt loam	*CL, CL-ML	*A-4	0	0	100	100	98-100	95-100	25-30	6-10
	18-31	*Silty clay, silty clay loam, clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-60	20-35
	31-37	*Silty clay loam, clay, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	37-60	*Silt loam, silty clay loam	*CL, CL-ML	*A-6, A-4	0	0	85-100	80-100	75-100	70-95	25-40	7-20
Swakane---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6201:												
Morical---------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-100	20-35	NP-10
	6-12	*Ashy silt loam, silt loam, loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	60-100	20-35	NP-10
	12-18	*Silt loam, paragravelly clay loam, clay loam, loam	*CL	*A-6, A-7, A-4	0	0	75-100	70-100	60-100	50-90	30-45	10-20
	18-27	*Very paragravelly sandy clay loam, paragravelly clay loam, sandy loam, loam	*CL, SC	*A-6, A-2, A-7	0	0	75-100	70-100	50-90	25-75	30-45	10-20
	27-37	*Bedrock	---	---	---	---	---	---	---	---	---	---
Athena----------	0-4	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	4-8	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	8-13	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	10-15
	13-26	*Silt loam	*CL	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	10-15
	26-42	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	42-54	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
	54-60	*Silt loam	*CL	*A-4, A-6	0	0	95-100	90-100	90-100	90-100	30-35	10-15
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
6201:												
Glenrose--------	0-8	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	8-14	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	90-100	80-100	75-100	70-90	25-35	NP-5
	14-19	*Silt loam, loam, fine gravelly silt loam	*ML, CL-ML	*A-4	0	0	100	75-100	65-95	55-85	25-35	5-10
	19-24	*Silty clay loam, clay loam, gravelly loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	65-95	55-85	25-35	5-15
	24-32	*Silty clay loam, gravelly loam, loam, clay loam	*CL	*A-6	0	0	80-100	75-100	65-95	50-85	25-35	10-15
	32-41	*Clay loam, gravelly loam, loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-80	25-40	10-20
	41-60	*Clay loam, silty clay loam, gravelly clay loam	*CL	*A-6	0	0	75-100	70-100	65-95	50-85	30-40	10-20
Kramerhill------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	1-5	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	5-9	*Ashy loam	*ML	*A-4	0	0-10	90-100	85-100	65-85	50-70	25-35	NP-5
	9-19	*Gravelly loam, silt loam, loam	*ML, CL-ML	*A-4	0	0-10	75-95	70-90	60-80	50-70	25-35	5-10
	19-30	*Gravelly sandy clay loam, loam, gravelly clay loam	*SM, SC	*A-4, A-6, A-2	0	0-10	65-85	60-85	55-70	30-50	30-40	5-15
	30-46	*Gravelly sandy clay loam, gravelly loam, gravelly clay loam	*GM, GC	*A-2, A-6	0	0-10	60-80	55-75	50-70	30-50	30-40	5-15
	46-56	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7090: Urban land.												
Lenz, disturbed	0-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, very gravelly sandy loam, extremely cobbly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Spokane, disturbed------	0-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	10-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly loamy coarse sand, gravelly sandy loam	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	10-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7090:												
Swakane,												
disturbed------	0-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
7091:												
Urban land.												
Lenz, disturbed	0-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, very gravelly sandy loam, extremely cobbly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7091:												
Spokane, disturbed------	0-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	10-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly loamy coarse sand, gravelly sandy loam	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	10-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane, disturbed------	0-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
7101: Pits.												
Dumps.												
7102: Riverwash.												

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7103: Xerolls, warm, mass wasted----	0-4	*Silt loam	*ML, CL-ML, CL	*A-7, A-4	0	0	85-100	80-100	70-100	55-90	25-45	5-20
	4-9	*Silt loam, gravelly loam, ashy silt loam	*CL, GC-GM	*A-7, A-4	0	0	70-100	65-100	55-100	45-90	25-45	5-20
	9-16	*Silty clay loam, cobbly silt loam, loam, clay loam, very gravelly sandy clay loam	*CL, GC, CH	*A-7, A-2	0	0-15	55-100	50-100	45-100	20-95	30-50	10-30
	16-24	*Loamy sand, loam, extremely gravelly loam, very gravelly coarse sandy loam, extremely cobbly loam	*SM, GP, CL-ML	*A-2, A-1, A-4	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
	24-60	*Loamy sand, loam, extremely gravelly loam, extremely cobbly loam, very gravelly coarse sandy loam	*SM, GP, CL-ML	*A-2, A-4, A-1	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
Bobbitt---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Cobbly ashy loam	*CL-ML	*A-4	0-5	20-40	80-95	75-90	65-80	50-65	20-30	5-10
	6-16	*Very cobbly ashy loam, very gravelly ashy loam, cobbly ashy silt loam	*GC-GM	*A-2	0-5	30-45	40-60	35-55	30-50	20-40	20-30	5-10
	16-33	*Extremely cobbly loam, very cobbly loam, very gravelly silt loam	*GM	*A-2	0-10	40-70	40-60	35-55	30-50	20-40	30-40	5-10
	33-38	*Extremely cobbly clay loam, very cobbly loam	*GC	*A-2	0-10	65-80	45-65	40-60	35-55	25-35	30-40	10-15
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7103: Brincken, moist, mass wasted---------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, SC-SM, CL	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, SC-SM, CL	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, gravelly ashy sandy loam, loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, extremely gravelly silt loam, very gravelly clay loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly silty clay loam, extremely gravelly sandy loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silty clay, silt loam	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7103:												
Dearyton--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	80-95	70-90	20-35	NP-5
	6-12	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	100	90-100	80-95	70-90	20-35	NP-5
	12-18	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	18-28	*Clay loam, silty clay loam, silty clay, fine gravelly clay loam	*CL	*A-6, A-7	0	0	90-100	70-100	65-95	65-90	30-50	15-30
	28-38	*Clay loam, silty clay loam, silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-10	90-100	70-100	65-95	65-90	30-50	15-30
	38-55	*Clay loam, silty clay, silty clay loam, cobbly silty clay, gravelly clay loam	*CL	*A-6, A-7	0	0-30	85-100	70-100	65-95	65-90	30-50	15-25
	55-60	*Gravelly clay loam, cobbly silty clay, silty clay loam, silty clay, clay loam	*SC, CL	*A-6, A-7	0	0-20	65-100	60-90	55-85	40-70	30-50	15-25
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7103:												
Speigle, mass wasted---------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, cobbly ashy silt loam, very cobbly ashy loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly loam, very cobbly silt loam	*GC-GM, GW-GC	*A-1, A-4	0	0-40	35-65	30-60	25-55	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very cobbly loam, very gravelly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very cobbly loam, very gravelly sandy loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
7104:												
Xerolls, cool, mass wasted----	0-4	*Silt loam	*ML, CL-ML, CL	*A-7, A-4	0	0	85-100	80-100	70-100	55-90	25-45	5-20
	4-9	*Silt loam, gravelly loam, ashy silt loam	*CL, GC-GM	*A-7, A-4	0	0	70-100	65-100	55-100	45-90	25-45	5-20
	9-16	*Silty clay loam, cobbly silt loam, loam, clay loam, very gravelly sandy clay loam	*CL, GC, CH	*A-7, A-2	0	0-15	55-100	50-100	45-100	20-95	30-50	10-30
	16-24	*Loamy sand, loam, extremely gravelly loam, very gravelly coarse sandy loam, extremely cobbly loam	*SM, GP, CL-ML	*A-2, A-1, A-4	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5
	24-60	*Loamy sand, loam, extremely gravelly loam, extremely cobbly loam, very gravelly coarse sandy loam	*SM, GP, CL-ML	*A-2, A-4, A-1	0	0-45	20-100	15-100	10-90	0-70	0-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7104:												
Fan Lake--------	0-4	*Ashy very fine sandy loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	4-8	*Ashy very fine sandy loam, ashy fine sandy loam, ashy silt loam	*ML	*A-4, A-5	0	0	100	100	85-95	50-70	35-45	NP-5
	8-16	*Ashy fine sandy loam	*ML, SM	*A-4	0	0	90-100	90-100	70-90	40-55	20-40	NP-5
	16-24	*Fine sandy loam, loam, sandy loam	*SM, CL-ML	*A-4, A-2	0	0	90-100	90-100	60-85	35-65	20-25	NP-5
	24-36	*Loam, sandy loam, fine sandy loam	*CL, SC-SM	*A-6, A-2	0	0	90-100	90-100	60-85	35-65	20-35	5-15
	36-51	*Clay loam, loam, silty clay loam	*CL	*A-6, A-7	0	0	90-100	90-100	85-100	70-95	30-45	10-20
	51-57	*Fine sandy loam, very fine sandy loam, sand, loamy fine sand	*SM, SW-SM, CL-ML	*A-4, A-1	0	0	100	100	50-90	10-55	0-20	NP-5
	57-60	*Sandy clay loam, silt loam, silty clay loam	*SC, CL	*A-6, A-4, A-7	0	0	100	100	80-100	40-85	30-45	10-25
Klickson, mass wasted---------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	80-100	65-95	---	---
	3-8	*Gravelly ashy silt loam	*ML, GM	*A-4	0	0-20	70-75	65-70	55-70	40-65	20-35	NP-5
	8-12	*Gravelly ashy loam, gravelly ashy silt loam	*GM, ML	*A-4	0	0-20	65-75	60-70	50-70	35-65	20-35	NP-5
	12-17	*Gravelly ashy loam, gravelly ashy silt loam, cobbly ashy loam	*GC-GM, GM	*A-4, A-2	0	0-15	55-75	50-70	40-70	30-50	20-30	NP-7
	17-28	*Very cobbly loam	*GM, GC-GM	*A-4, A-2	0-10	15-45	40-70	40-65	35-55	30-45	25-35	5-10
	28-35	*Very stony loam, very cobbly loam	*GM, GC-GM	*A-4, A-2	0-30	15-55	55-65	50-60	40-55	30-45	25-35	5-10
	35-50	*Extremely stony loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4	30-65	15-55	50-60	45-55	35-50	30-40	25-35	5-10
	50-60	*Extremely cobbly loam, extremely stony loam	*GM	*A-1, A-2	15-45	55-70	35-45	30-40	25-35	20-30	15-25	NP-5
Lakespring------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7104:												
Green Bluff-----	0-7	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-30	NP-5
	7-17	*Ashy silt loam, ashy loam	*ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	NP-5
	17-29	*Silt loam, loam	*CL-ML, ML	*A-4	0	0-10	85-100	80-95	70-90	55-85	20-30	2-10
	29-55	*Gravelly loam, silt loam	*CL-ML, ML	*A-4	0	0-10	75-100	70-95	60-90	55-85	20-30	2-10
	55-60	*Fine sandy loam, silt loam, loam	*SC-SM, ML	*A-4	0	0-10	75-95	70-90	60-90	40-70	20-30	4-7
Blinn, stony surface--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-6	*Ashy silt loam	*CL-ML, ML	*A-4	0-10	0-10	80-95	75-95	70-85	55-75	20-30	NP-10
	6-12	*Stony ashy silt loam, gravelly silt loam, cobbly silt loam	*CL-ML, ML	*A-4	0-20	0-20	75-90	70-85	65-80	50-65	20-30	NP-10
	12-24	*Stony loam, cobbly loam	*CL, CL-ML	*A-4	10-25	10-25	80-90	75-85	70-80	50-70	25-30	5-10
	24-39	*Very stony loam, extremely stony loam, very cobbly loam	*GC-GM	*A-4	25-55	10-45	50-70	45-65	40-60	35-50	20-30	5-10
	39-49	*Bedrock	---	---	---	---	---	---	---	---	---	---
Elmira----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-6	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	6-12	*Loamy sand	*SM, SP-SM	*A-2, A-3	0	0	100	100	80-100	10-20	0-10	NP
	12-23	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	100	75-95	5-15	0-10	NP
	23-54	*Sand, loamy sand	*SP-SM, SM	*A-3	0	0	100	90-100	75-95	5-15	0-10	NP
	54-66	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
	66-80	*Sand, loamy sand	*SP-SM, SP	*A-3	0	0	100	90-100	75-95	0-10	0-10	NP
Kronquist-------	0-11	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	11-27	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	85-95	25-35	5-10
	27-40	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	40-55	*Clay loam, silty clay loam	*CL	*A-6	0	0	100	100	90-100	70-85	30-40	15-20
	55-60	*Sandy clay loam, clay loam	*CL, SC	*A-6	0	0	90-100	85-100	70-95	45-85	30-40	15-20
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas-ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7105: Urban land, gravelly substratum.												
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly sandy loam, very gravelly loam, extremely gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7105:												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
7106:												
Urban land, gravelly substratum												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7107:												
Urban land, basalt bedrock substratum.												
Northstar,												
disturbed------	0-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7110: Urban land.												
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Bong, moist, disturbed------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7110:												
Garrison, disturbed------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Hardesty, disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7110: Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7111: Urban land.												
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Bong, moist, disturbed------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7111:												
Garrison, disturbed------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Hardesty, disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7111: Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7112: Urban land.												
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Bong, moist, disturbed------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7112:												
Garrison, disturbed------	0-4	*Very gravelly ashy loam	*GM	*A-1, A-2	0	0-15	35-55	30-50	25-40	20-30	25-35	NP-5
	4-16	*Very gravelly ashy loam, very stony ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-4	0-20	0-30	30-55	25-50	25-45	20-40	25-40	NP-5
	16-24	*Very gravelly loam, extremely stony sandy loam, very stony sandy loam, extremely cobbly coarse sandy loam	*GC-GM, GP-GM	*A-1, A-2	0-40	0-40	25-55	20-50	15-40	10-30	15-30	2-10
	24-60	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely stony sand, extremely cobbly coarse sand, very stony sand	*GP-GM, GP, GM	*A-1	0-30	10-20	20-60	15-55	5-40	0-15	0-18	NP-2
Hardesty, disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7112:												
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
7115:												
Urban land.												
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7115:												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7115:												
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7116:												
Urban land.												
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7116:												
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7116: Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
7117: Urban land.												
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7117:												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7117:												
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7120: Urban land.												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
Hardesty, disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7121:												
Urban land.												
Marble,												
disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Hardesty,												
disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Hagen, disturbed	0-7	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	90-100	60-70	30-40	15-30	NP-5
	7-15	*Ashy sandy loam, ashy fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	60-75	30-50	15-30	NP-5
	15-29	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	95-100	90-100	45-70	5-30	0-10	NP
	29-52	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP
	52-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-2, A-1	0	0	90-100	85-100	45-70	5-30	0-10	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7121:												
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
7122:												
Urban land.												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7122:												
Bong, moist, disturbed------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Hardesty, disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7122:												
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
7123:												
Urban land.												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land-----	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7123:												
Speigle, disturbed------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8
7130:												
Urban land.												
Northstar, disturbed------	0-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7130:												
Rockly, disturbed------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7131:												
Urban land.												
Northstar, disturbed------	0-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly, disturbed------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7131:												
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
7132:												
Urban land.												
Northstar, disturbed------	0-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7132:												
Rockly, disturbed------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Seaboldt, disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7134: Urban land.												
Northstar, disturbed------	0-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rockly, disturbed------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Speigle, disturbed------	0-6	*Cobbly ashy loam	*CL-ML	*A-4	0	15-30	75-95	70-90	60-80	40-65	19-23	2-6
	6-17	*Very gravelly ashy loam, very cobbly ashy loam, cobbly ashy silt loam	*GC-GM, GM	*A-4, A-2	0	10-50	50-75	45-70	40-60	35-55	19-26	2-8
	17-23	*Very cobbly loam, very gravelly loam, very gravelly silt loam	*GC-GM	*A-2, A-4	0	0-40	40-65	35-60	30-55	25-45	21-28	4-9
	23-35	*Extremely gravelly loam, very cobbly silt loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-40	35-55	30-50	25-50	10-40	21-28	4-9
	35-44	*Extremely cobbly sandy loam, very gravelly loam, very cobbly loam	*GC-GM, GW-GC	*A-1, A-4	0	30-70	35-65	30-60	20-50	10-40	20-26	4-8
	44-65	*Extremely cobbly sandy loam, very gravelly sandy loam, very cobbly loam	*GC-GM, GP-GC	*A-1	0	30-70	25-55	20-50	10-40	5-35	20-26	4-8

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7134:												
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7140:												
Urban land.												
Uhlig, disturbed	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Seaboldt, warm, disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7140: Brincken, moist, disturbed------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Nez Perce, disturbed------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	10-19	*Silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
	19-30	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-60	20-35
	30-42	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
	42-60	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7150: Urban land.												
Seaboldt, disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brincken, moist, disturbed------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7150:												
Uhlig, disturbed	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5
Phoebe, disturbed	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Marble, disturbed	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7151: Urban land.												
Seaboldt, disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brincken, moist, disturbed------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7151:												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Uhlig, disturbed	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7152:												
Urban land.												
Seaboldt,												
disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lakespring,												
disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Marblespring,												
disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7152: Springdale, disturbed, stony surface--	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0-10	0-10	60-75	55-70	25-40	20-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
7163: Urban land.												
Spens, disturbed	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7163:												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7170: Urban land.												
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7170:												
Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7171: Urban land.												
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7171: Brincken, moist, disturbed------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7171: Opportunity, disturbed------	0-7	*Very gravelly ashy loam	*GM	*A-1	0	0-10	30-55	25-50	20-45	15-45	20-30	NP-5
	7-13	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	13-19	*Extremely gravelly ashy loam, very gravelly ashy loam	*GM	*A-1	0	0-15	20-50	15-45	10-40	5-40	20-30	NP-5
	19-33	*Extremely gravelly loam, very gravelly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	33-43	*Extremely gravelly loam, very gravelly loam, extremely gravelly sandy loam, very gravelly sandy loam	*GC-GM	*A-1	0	0-25	15-50	10-45	5-40	0-40	15-25	NP-5
	43-53	*Extremely gravelly loamy coarse sand, very gravelly loamy coarse sand, extremely gravelly coarse sandy loam	*GM	*A-1	0	0-25	15-50	10-45	10-45	5-45	0-15	NP-5
	53-60	*Extremely gravelly coarse sand, extremely gravelly loamy coarse sand	*GP-GM	*A-1	0-10	10-50	10-35	5-30	5-30	0-30	0-0	NP-5
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7172: Urban land.												
Springdale, disturbed------	0-3	*Gravelly ashy coarse sandy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-20	NP-5
	3-7	*Gravelly ashy coarse sandy loam, gravelly ashy loam	*SM	*A-1, A-2	0	0-10	65-80	60-75	35-50	15-30	0-30	NP-5
	7-13	*Gravelly ashy coarse sandy loam, very gravelly ashy sandy loam, gravelly ashy sandy loam	*SM, SP-SM, GM	*A-1	0	0-15	45-75	40-70	25-45	10-25	0-25	NP-5
	13-25	*Very gravelly loamy coarse sand, very gravelly sand, very gravelly loamy sand, very gravelly coarse sand	*SP-SM, GP, GM	*A-1	0	0-25	35-65	30-60	15-45	0-20	0-20	NP
	25-61	*Very cobbly coarse sand, extremely gravelly coarse sand, extremely cobbly coarse sand, very gravelly coarse sand	*GP	*A-1	0-15	10-45	30-55	25-50	10-30	0-5	0-0	NP
Marblespring, disturbed------	0-2	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-30	NP-5
	2-7	*Fine gravelly loamy coarse sand	*SM, SW-SM	*A-1	0	0	85-100	50-70	25-50	10-20	20-25	NP-5
	7-27	*Very gravelly loamy coarse sand	*SP-SM	*A-1	0	0-5	85-100	30-45	20-30	5-15	15-25	NP-5
	27-51	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM	*A-1	0	0-5	80-95	30-45	20-30	5-15	15-25	NP-5
	51-60	*Very gravelly coarse sand	*SW, SP	*A-1	0	0-5	80-95	30-45	15-25	0-5	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7172:												
Spens, disturbed	0-3	*Very gravelly loamy coarse sand	*GM, GP-GM	*A-1	0	0-10	35-55	30-50	15-30	5-15	0-14	NP
	3-18	*Very gravelly loamy coarse sand, very gravelly coarse sand	*SP-SM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
	18-60	*Very gravelly coarse sand, very gravelly loamy coarse sand	*GP-GM, GM, GP	*A-1	0	0-15	35-55	30-50	15-30	0-15	0-14	NP
7177:												
Urban land.												
Seaboldt, warm, disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7177:												
Brincken, moist, disturbed------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30
Nez Perce, disturbed------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	10-19	*Silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
	19-30	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-60	20-35
	30-42	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
	42-60	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7177:												
Uhlig, disturbed	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7177:												
Stutler, disturbed------	0-5	*Gravelly ashy silt loam	*GC-GM, GM	*A-4	0	0-10	65-80	60-75	55-70	40-65	20-35	NP-10
	5-12	*Gravelly ashy silt loam, very gravelly ashy loam, very gravelly ashy silt loam, gravelly ashy loam	*GC-GM, GM	*A-4, A-2	0	0-25	50-65	45-60	40-60	30-55	20-35	NP-10
	12-22	*Very cobbly silt loam, extremely cobbly coarse sandy loam, very gravelly loam, extremely cobbly sandy loam	*GC-GM, GW-GM	*A-2, A-1, A-4	0-15	25-50	35-70	30-65	15-55	10-45	15-30	NP-10
	22-32	*Extremely cobbly loam, very cobbly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GP-GC, GP-GM	*A-1, A-4	0-15	25-50	25-70	20-65	10-55	5-45	15-30	NP-10
	32-42	*Extremely gravelly coarse sandy loam, extremely cobbly coarse sandy loam, extremely gravelly loam, very cobbly sandy loam	*GP-GM, GP	*A-1, A-4	0-15	15-55	15-65	10-55	10-50	0-40	15-30	NP-10
	42-61	*Extremely gravelly loamy coarse sand, extremely cobbly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, very cobbly sand	*GP	*A-1	0-25	10-55	15-60	10-55	5-45	0-5	0-20	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7178:												
Urban land.												
Seaboldt, warm, disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brincken, moist, disturbed------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7178:												
Nez Perce, disturbed------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	10-19	*Silt loam	*ML	*A-4	0	0	85-100	80-100	75-100	70-100	20-35	NP-10
	19-30	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-60	20-35
	30-42	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
	42-60	*Silty clay, silty clay loam	*CH	*A-7	0	0	95-100	90-100	80-100	75-100	45-65	20-40
Uhlig, disturbed	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	4-10	*Ashy silt loam, ashy loam	*ML	*A-4	0	0	95-100	90-100	80-100	70-90	20-35	NP-5
	10-18	*Ashy loam, ashy silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-35	NP-5
	18-32	*Loam, silt loam	*ML	*A-4	0	0	95-100	90-100	75-100	60-90	20-30	NP-5
	32-42	*Loam, very fine sandy loam, silt loam	*ML, SM	*A-4	0	0	85-100	75-100	70-100	45-75	15-30	NP-5
	42-60	*Very fine sandy loam, gravelly sandy loam, loam	*ML, SM	*A-4	0	0	80-100	70-100	50-85	30-60	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7178: Stutler, disturbed------	0-5	*Gravelly ashy silt loam	*GC-GM, GM	*A-4	0	0-10	65-80	60-75	55-70	40-65	20-35	NP-10
	5-12	*Gravelly ashy silt loam, very gravelly ashy loam, very gravelly ashy silt loam, gravelly ashy loam	*GC-GM, GM	*A-4, A-2	0	0-25	50-65	45-60	40-60	30-55	20-35	NP-10
	12-22	*Very cobbly silt loam, extremely cobbly coarse sandy loam, very gravelly loam, extremely cobbly sandy loam	*GC-GM, GW-GM	*A-2, A-1, A-4	0-15	25-50	35-70	30-65	15-55	10-45	15-30	NP-10
	22-32	*Extremely cobbly loam, very cobbly sandy loam, extremely gravelly sandy loam, very gravelly loam	*GP-GC, GP-GM	*A-1, A-4	0-15	25-50	25-70	20-65	10-55	5-45	15-30	NP-10
	32-42	*Extremely gravelly coarse sandy loam, extremely cobbly coarse sandy loam, extremely gravelly loam, very cobbly sandy loam	*GP-GM, GP	*A-1, A-4	0-15	15-55	15-65	10-55	10-50	0-40	15-30	NP-10
	42-61	*Extremely gravelly loamy coarse sand, extremely cobbly coarse sand, extremely gravelly loamy coarse sand, very gravelly coarse sand, very cobbly sand	*GP	*A-1	0-25	10-55	15-60	10-55	5-45	0-5	0-20	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7179:												
Urban land.												
Seaboldt, warm, disturbed------	0-7	*Ashy loam	*ML, CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	25-35	5-15
	7-10	*Ashy loam, ashy silt loam	*CL-ML	*A-4	0	0	80-100	80-100	70-100	50-75	20-35	5-15
	10-16	*Loam, gravelly loam, silt loam	*CL-ML	*A-4	0	0	75-100	70-100	65-90	45-65	20-30	5-12
	16-23	*Sandy loam, loam, gravelly loam	*SM, CL-ML	*A-2, A-1, A-4	0	0-15	65-90	60-90	45-75	25-55	15-25	NP-5
	23-28	*Extremely gravelly sandy loam, cobbly loamy sand, very gravelly sand, gravelly loamy sand	*GP-GM, SC-SM	*A-1, A-2	0-10	0-20	20-80	15-75	10-60	5-30	0-20	NP-5
	28-38	*Bedrock	---	---	---	---	---	---	---	---	---	---
Brincken, moist, disturbed------	0-7	*Ashy silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-100	65-100	20-35	NP-15
	7-13	*Ashy silt loam, ashy loam, ashy very fine sandy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	13-19	*Ashy silt loam, ashy very fine sandy loam, ashy loam	*ML, CL, SC-SM	*A-4, A-6	0	0	95-100	90-100	75-100	45-100	20-35	NP-15
	19-29	*Ashy silt loam, loam, gravelly ashy sandy loam	*ML, CL, SM	*A-4, A-6, A-1	0	0	60-100	55-100	30-100	15-100	20-35	NP-15
	29-41	*Extremely gravelly loam, very gravelly clay loam, extremely gravelly silt loam	*GC, GP-GC	*A-2, A-1	0	0-20	20-50	15-45	5-40	5-35	25-40	5-20
	41-57	*Very gravelly sandy clay loam, extremely gravelly sandy loam, extremely gravelly silty clay loam	*GC, GP-GC	*A-2, A-6, A-1	0	0-20	20-50	15-45	15-40	5-40	25-40	5-20
	57-60	*Silty clay loam, silt loam, silty clay	*CL, CH	*A-6, A-7, A-4	0	0	95-100	90-100	80-100	65-100	30-50	10-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7179:												
Rockly, disturbed------	0-3	*Very cobbly loam	*GM	*A-4, A-1	0	35-50	50-75	40-70	35-65	25-50	25-35	NP-5
	3-6	*Very cobbly loam, extremely cobbly loam, very cobbly silt loam	*GM	*A-4, A-1	0	35-60	40-65	35-60	30-55	25-50	25-35	NP-5
	6-16	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
7180:												
Urban land.												
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Bong, moist, disturbed------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7180:												
Hardesty, disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
7181:												
Urban land.												
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7181:												
Bong, moist, disturbed------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Hardesty, disturbed------	0-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	4-11	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	75-85	20-35	NP-5
	11-23	*Ashy silt loam	*ML	*A-4	0	0	90-100	80-100	70-95	65-80	20-35	NP-5
	23-32	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	90-100	80-100	65-95	50-80	20-35	NP-5
	32-39	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	90-100	80-100	65-90	50-70	15-30	NP-5
	39-60	*Ashy loamy very fine sand, ashy silt, ashy very fine sandy loam	*ML, SM	*A-4, A-2	0	0	95-100	80-100	75-95	35-90	15-30	NP-5
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7182: Urban land.												
Phoebe, disturbed------	0-8	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	95-100	60-85	30-55	20-30	NP-5
	8-16	*Ashy sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	20-30	NP-5
	16-25	*Fine sandy loam, sandy loam	*SM	*A-2, A-4	0	0	100	90-100	60-85	30-55	15-25	NP-5
	25-34	*Sandy loam, fine sandy loam	*SM	*A-2, A-4	0	0	95-100	90-100	55-80	25-40	15-25	NP-5
	34-44	*Loamy sand, sand	*SM, SP-SM	*A-2, A-1	0	0	90-100	85-100	45-75	5-30	0-20	NP-5
	44-60	*Sand, loamy sand	*SW-SM, SP-SM, SM	*A-3, A-1, A-2	0	0	90-100	85-100	40-70	5-30	0-0	NP
Bong, moist, disturbed------	0-11	*Ashy sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-20	NP
	11-22	*Sandy loam, coarse sandy loam	*SM	*A-2, A-4	0	0	90-100	75-100	45-70	20-40	0-15	NP
	22-28	*Gravelly coarse sandy loam, coarse sandy loam, gravelly loamy coarse sand	*SM	*A-1, A-2	0	0-10	60-95	55-85	30-60	10-25	0-0	NP
	28-60	*Coarse sand, very gravelly coarse sand, gravelly coarse sand	*SP-SM, SP, SM	*A-1	0	0-10	60-85	55-80	20-50	0-15	0-0	NP
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7182:												
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP
7190:												
Urban land.												
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7190:												
Northstar, disturbed------	0-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
7191:												
Urban land.												
Lakespring, disturbed------	0-7	*Ashy loam	*ML	*A-4	0	0	95-100	80-100	65-95	60-75	25-35	NP-5
	7-21	*Loam	*CL-ML, CL	*A-4	0	0	90-100	80-100	65-95	60-75	15-25	5-10
	21-34	*Gravelly loam, loam	*CL, CL-ML	*A-4	0	0	80-100	70-100	60-90	50-75	15-25	5-10
	34-39	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
	39-50	*Silt loam, loam	*CL, CL-ML	*A-4	0	0	90-100	80-100	70-100	55-95	20-40	7-10
	50-72	*Silty clay loam, clay loam	*CL	*A-6	0	0	90-100	80-100	70-100	65-95	20-40	10-15
Marble, disturbed------	0-4	*Loamy sand	*SM	*A-1, A-2	0	0	100	100	45-70	15-30	0-20	NP-2
	4-8	*Loamy sand, loamy coarse sand, sand	*SM, SW-SM	*A-2, A-1	0	0	100	100	45-70	10-25	0-20	NP-2
	8-27	*Sand, coarse sand, loamy sand, loamy coarse sand	*SM, SW-SM	*A-2, A-1	0	0	100	90-100	45-70	10-25	0-0	NP
	27-53	*Sand, coarse sand, loamy coarse sand, loamy sand	*SW-SM, SP-SM, SM	*A-1, A-2	0	0	100	90-100	40-60	5-15	0-0	NP
	53-60	*Sand, coarse sand	*SP-SM, SP, SM	*A-1, A-2	0	0	100	90-100	40-60	0-15	0-0	NP

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7191:												
Northstar, disturbed------	0-6	*Extremely cobbly ashy loam	*GM	*A-1, A-2	0	45-55	25-40	20-40	15-35	10-30	20-35	NP-10
	6-11	*Extremely cobbly ashy loam	*GM	*A-2, A-1	0	45-55	30-50	25-45	25-40	20-35	20-35	NP-10
	11-17	*Very gravelly ashy loam, extremely cobbly ashy loam	*GC-GM	*A-2, A-1	0	15-40	35-50	30-45	25-40	20-30	20-30	5-10
	17-26	*Extremely gravelly loam, very gravelly loam, extremely cobbly loam	*GC-GM, GP-GC	*A-2, A-1	0	20-40	25-45	20-40	20-40	10-25	20-30	5-10
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
7197:												
Urban land.												
Spokane, disturbed------	0-4	*Ashy loam	*ML	*A-4	0	0	95-100	85-100	75-90	50-70	20-30	NP-5
	4-10	*Ashy sandy loam, ashy loam	*SM, ML	*A-2, A-4	0	0	95-100	85-100	55-85	30-60	20-30	NP-5
	10-18	*Gravelly coarse sandy loam, loam, sandy loam, gravelly sandy loam	*SM	*A-2, A-1	0	0-10	65-95	55-85	35-55	20-35	10-20	NP
	18-26	*Gravelly coarse sandy loam, gravelly loamy coarse sand, gravelly sandy loam	*SM	*A-1, A-2	0	0-10	65-80	55-70	35-50	20-30	10-20	NP
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
7197:												
Lenz, disturbed	0-4	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-20	40-55	35-50	20-30	15-25	15-25	NP-5
	4-9	*Very gravelly ashy sandy loam	*GM	*A-1	0	0-15	40-50	35-50	20-30	15-25	15-25	NP-5
	9-14	*Very gravelly ashy sandy loam, very gravelly ashy loam	*GM	*A-1, A-2	0	0-25	35-55	30-50	25-50	15-35	15-25	NP-5
	14-26	*Very cobbly sandy loam, extremely gravelly sandy loam, very gravelly sandy loam, extremely cobbly sandy loam	*GM	*A-1	0-10	15-40	40-65	35-60	25-40	15-25	15-20	NP-5
	26-38	*Extremely stony sandy loam, extremely cobbly sandy loam, very cobbly sandy loam	*GM, GW-GM	*A-1	10-50	30-35	40-60	35-55	20-40	10-20	0-20	NP-5
	38-48	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Swakane, disturbed------	0-3	*Gravelly ashy loam	*ML, GM	*A-4	0	0-10	60-80	55-75	50-65	35-50	15-25	NP-5
	3-9	*Gravelly ashy loam, cobbly ashy loam	*SM, GC-GM	*A-4	0	0-15	55-80	50-75	40-65	30-50	15-25	NP-5
	9-13	*Very cobbly ashy sandy loam, very gravelly ashy loam, very gravelly ashy sandy loam	*GM, GC-GM	*A-1, A-4	0	0-40	40-65	35-60	20-50	15-40	15-25	NP-5
	13-17	*Very gravelly sandy loam, very cobbly sandy loam	*GM, GP-GM	*A-1	0	0-30	30-55	25-50	15-35	10-20	15-20	NP-5
	17-19	*Very gravelly loamy sand, very gravelly sandy loam	*GW-GM, GM	*A-1	0	0-15	30-55	25-50	15-35	5-20	0-0	NP
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
7200:												
Rock outcrop, cliffs---------	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rubble land, cliffs---------	0-60	*Fragmental material	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
8000:												
Pywell----------	0-6	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	6-14	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	14-27	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	27-31	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	31-45	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	45-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Bellslake-------	0-6	*Mucky ashy silt loam	*OL	*A-4	0	0	100	100	95-100	90-100	20-35	NP-10
	6-10	*Stratified mucky ashy silt loam to very fine sandy loam, ashy silt loam, mucky ashy silt loam	*OL, ML	*A-4	0	0	100	100	90-100	80-95	20-35	NP-10
	10-18	*Stratified mucky ashy silt loam to very fine sandy loam	*OL, ML	*A-4	0	0	100	100	90-100	80-95	20-35	NP-10
	18-30	*Mucky silt loam, silt loam, ashy silt loam, mucky ashy silt loam	*CL-ML, OL	*A-4	0	0	100	100	95-100	85-100	0-25	NP-5
	30-48	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	48-55	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	55-65	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Hoodoo----------	0-10	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	80-90	25-35	NP-5
	10-18	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	18-23	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	23-40	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	40-52	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
	52-60	*Ashy silt loam, ashy very fine sandy loam	*ML	*A-4	0	0	100	100	85-100	60-90	25-35	NP-5
8001:												
Saltese---------	0-5	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	5-12	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	12-16	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	16-24	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	24-40	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	40-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
8001:												
Cocolalla-------	0-11	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	11-28	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	95-100	90-98	20-35	NP-10
	28-37	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	37-43	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	43-54	*Ashy silt loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
	54-60	*Ashy silt loam, silty clay loam, ashy silt, ashy very fine sandy loam	*CL-ML, ML	*A-4	0	0	85-100	80-100	75-100	65-98	20-35	NP-10
Narcisse--------	0-8	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	28-36	5-10
	8-14	*Silt loam	*ML	*A-4	0	0	90-100	80-100	75-95	60-80	26-36	5-10
	14-25	*Loam, silt loam	*ML	*A-4	0	0	90-100	80-100	75-90	50-75	25-34	5-8
	25-34	*Very fine sandy loam, silt loam, loam	*ML, SM	*A-4	0	0	90-100	75-100	65-100	40-65	15-25	NP-5
	34-48	*Sandy loam, loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
	48-60	*Sandy loam, loam, fine sandy loam	*SM	*A-2, A-4	0	0	85-100	75-100	55-80	25-50	0-20	NP
Water.												
8002:												
Saltese, drained	0-5	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	5-12	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	12-16	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	16-24	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	24-40	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	40-60	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
Fluvaquentic Haplosaprists--	0-15	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	15-25	*Muck	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	25-50	*Mucky peat	*PT	*A-8	0	0	100	100	85-100	80-100	---	---
	50-60	*Stratified ashy very fine sandy loam to ashy silt loam to silt loam	*ML, CL-ML	*A-4	0	0	100	100	85-100	55-90	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
8002:												
Peone, drained--	0-6	*Ashy silt loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	6-11	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	11-30	*Ashy silt loam, ashy very fine sandy loam	*ML, CL-ML	*A-4	0	0	100	100	90-100	70-90	25-35	5-10
	30-42	*Ashy very fine sandy loam, ashy silt loam	*ML	*A-4	0	0	100	100	85-100	55-85	25-35	NP-5
	42-60	*Loamy coarse sand	*SM	*A-2, A-1	0	0	100	100	45-75	15-30	20-30	NP
Endoaquolls-----	0-5	*Loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	5-11	*Loam, silt loam, fine sandy loam	*CL-ML, SM, CL	*A-4	0	0	90-100	85-100	50-100	40-100	0-30	NP-10
	11-19	*Sandy loam, silt loam, gravelly fine sandy loam, loam	*SM, CL	*A-2, A-1, A-4	0	0	75-100	70-100	40-100	20-90	0-30	NP-10
	19-28	*Fine sandy loam, silt loam, gravelly sandy loam, loam	*SM, CL	*A-4, A-1	0	0	75-100	70-100	40-100	20-100	0-30	NP-10
	28-45	*Fine sandy loam, gravelly coarse sandy loam, very gravelly sandy loam, loam	*SM, GM, CL	*A-4, A-1	0	0-10	45-100	40-100	30-90	15-75	0-30	NP-10
	45-60	*Stratified sandy loam to fine sandy loam, gravelly coarse sandy loam, very gravelly loamy sand	*SM, SC-SM, GP-GM	*A-2, A-4, A-1	0	0-25	35-100	30-100	15-85	5-50	0-20	NP-5
9124:												
Caldwell--------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	4-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	10-16	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	16-21	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	21-30	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	30-40	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-35	10-15
	40-52	*Silt loam, silty clay loam	*CL	*A-6, A-4, A-7	0	0	100	100	98-100	95-100	30-45	10-20
	52-60	*Silt loam, silty clay loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9124:												
Cald----------	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, ML	*A-6, A-4	0	0	100	100	98-100	95-100	20-35	3-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25
Endoaquolls-----	0-10	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-30	5-15
	10-20	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	20-30	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	7-15
	30-40	*Silt loam, loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	70-100	25-35	7-15
	40-52	*Silt loam, silty clay loam, loam	*CL, CL-ML	*A-6, A-7, A-4	0	0	100	100	90-100	70-100	25-45	7-20
	52-60	*Silt loam, silty clay loam, loam	*CL, CL-ML	*A-6, A-4, A-7	0	0	100	100	90-100	70-100	25-45	7-20
Thatuna---------	0-6	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	6-12	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	12-19	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	19-28	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	28-35	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	98-100	95-100	0-25	NP-7
	35-43	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	43-52	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
	52-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	98-100	95-100	35-45	15-20
Latah----------	0-10	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	10-14	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	14-19	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	98-100	95-100	20-30	5-10
	19-22	*Silt loam, silt	*CL-ML, ML	*A-4	0	0	100	100	98-100	90-100	20-35	NP-10
	22-31	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-25
	31-38	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	38-60	*Silty clay loam, silty clay	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	40-50	20-30

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9300:												
Taney----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Latahco---------	0-13	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	13-20	*Silt loam, very fine sandy loam	*CL-ML, CL, ML	*A-4	0	0	100	100	85-100	80-100	15-30	NP-10
	20-26	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	26-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	42-51	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	51-62	*Silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-100	80-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9300:												
Setters---------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-35	5-15
	4-15	*Silt loam	*CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-35	10-15
	15-19	*Silt loam	*CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-35	10-15
	19-22	*Silt loam	*CL-ML, ML, CL	*A-4	0	0	95-100	95-100	90-100	85-95	20-30	NP-10
	22-60	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	95-100	95-100	90-100	90-95	45-55	25-35
Southwick-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	25-40	NP-10
	6-13	*Silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	90-100	25-40	5-10
	13-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	28-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-10
	31-49	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	49-54	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	54-70	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
9301:												
Taney-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9301:												
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Benewah---------	0-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-30	NP-10
	6-15	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	20-30	NP-10
	15-18	*Silt loam	*CL-ML, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	15-25	NP-5
	18-23	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	85-95	25-35	10-15
	23-34	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	80-95	30-40	10-20
	34-60	*Silty clay loam, gravelly silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0-10	80-100	75-100	70-100	70-90	30-45	10-25
Setters---------	0-4	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-35	5-15
	4-15	*Silt loam	*CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-35	10-15
	15-19	*Silt loam	*CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-35	10-15
	19-22	*Silt loam	*CL-ML, ML, CL	*A-4	0	0	95-100	95-100	90-100	85-95	20-30	NP-10
	22-60	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	95-100	95-100	90-100	90-95	45-55	25-35

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9301:												
Latahco---------	0-13	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	13-20	*Silt loam, very fine sandy loam	*CL-ML, CL, ML	*A-4	0	0	100	100	85-100	80-100	15-30	NP-10
	20-26	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	26-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	42-51	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	51-62	*Silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-100	80-100	30-40	10-20
9330:												
Carlinton-------	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9330:												
Lovell----------	0-8	*Ashy silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	92-100	86-96	25-40	5-15
	8-18	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	94-100	86-95	25-35	5-15
	18-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	89-96	25-35	10-20
	22-34	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	90-98	30-40	10-25
	34-51	*Loam, silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	81-91	30-40	10-25
	51-60	*Loam, silt loam	*CL	*A-6, A-4	0	0	100	100	94-100	78-87	25-35	10-20
Taney----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
Benewah---------	0-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-30	NP-10
	6-15	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	20-30	NP-10
	15-18	*Silt loam	*CL-ML, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	15-25	NP-5
	18-23	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	85-95	25-35	10-15
	23-34	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	80-95	30-40	10-20
	34-60	*Silty clay loam, gravelly silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0-10	80-100	75-100	70-100	70-90	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9335:												
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Carlinton-------	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Taney-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9335:												
Benewah---------	0-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-30	NP-10
	6-15	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	20-30	NP-10
	15-18	*Silt loam	*CL-ML, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	15-25	NP-5
	18-23	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	85-95	25-35	10-15
	23-34	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	80-95	30-40	10-20
	34-60	*Silty clay loam, gravelly silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0-10	80-100	75-100	70-100	70-90	30-45	10-25
Lovell----------	0-8	*Ashy silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	92-100	86-96	25-40	5-15
	8-18	*Ashy silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	94-100	86-95	25-35	5-15
	18-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	89-96	25-35	10-20
	22-34	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	95-100	90-98	30-40	10-25
	34-51	*Loam, silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	95-100	81-91	30-40	10-25
	51-60	*Loam, silt loam	*CL	*A-6, A-4	0	0	100	100	94-100	78-87	25-35	10-20
Santa-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	4-9	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	9-15	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-95	20-30	5-10
	15-34	*Silt loam, silt	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-25	NP-10
	34-44	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-95	25-40	10-20
	44-60	*Silty clay loam, silt loam	*CL	*A-6	0	0	100	100	90-100	85-95	30-40	15-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9336:												
Carlinton, dry--	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
Taney----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
Carlinton-------	0-5	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	5-10	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-95	20-35	NP-10
	10-14	*Silt loam, ashy silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	20-35	5-10
	14-20	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	20-30	5-10
	20-23	*Silt loam	*CL-ML, CL	*A-4	0	0	95-100	90-100	85-95	85-95	15-25	5-10
	23-30	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	30-53	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9336:												
Benewah---------	0-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-30	NP-10
	6-15	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	20-30	NP-10
	15-18	*Silt loam	*CL-ML, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	15-25	NP-5
	18-23	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	85-95	25-35	10-15
	23-34	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	80-95	30-40	10-20
	34-60	*Silty clay loam, gravelly silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0-10	80-100	75-100	70-100	70-90	30-45	10-25
Santa-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	4-9	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	20-30	NP-10
	9-15	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-95	20-30	5-10
	15-34	*Silt loam, silt	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-25	NP-10
	34-44	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-95	25-40	10-20
	44-60	*Silty clay loam, silt loam	*CL	*A-6	0	0	100	100	90-100	85-95	30-40	15-20
Latahco---------	0-13	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	13-20	*Silt loam, very fine sandy loam	*CL-ML, CL, ML	*A-4	0	0	100	100	85-100	80-100	15-30	NP-10
	20-26	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	26-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	42-51	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	51-62	*Silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-100	80-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9340:												
Arson----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9340:												
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9340:												
Bechtel---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	80-100	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	80-90	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	60-85	20-30	NP-5
	4-9	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-85	60-80	20-30	NP-5
	9-17	*Silt loam, loam, gravelly silt loam	*CL-ML, CL, SC-SM	*A-4	0	0	75-95	70-85	60-80	45-60	20-30	5-10
	17-26	*Silt loam, gravelly silt loam, gravelly loam	*CL, SC-SM	*A-4, A-6	0	0	75-95	70-85	60-80	45-60	25-35	5-15
	26-35	*Very gravelly loam, very gravelly silt loam, gravelly silt loam	*GC, GC-GM	*A-2, A-1, A-6	0	0	45-55	40-50	35-45	25-40	25-35	5-15
	35-56	*Extremely gravelly loam, extremely cobbly loam, very gravelly silt loam	*GP-GC, GC	*A-1, A-2	0	0-45	15-40	10-35	10-30	5-25	20-30	5-15
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
Sinkler---------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	90-100	85-100	85-95	80-90	20-30	NP-10
	6-12	*Ashy silt loam	*CL-ML, ML, CL	*A-4	0	0	95-100	90-100	85-95	80-90	20-30	NP-10
	12-20	*Silt loam	*CL-ML, CL	*A-4	0	0	90-100	85-100	85-95	80-90	20-30	5-10
	20-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	90-100	85-100	85-95	80-90	25-35	5-15
	28-38	*Silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	80-95	75-90	25-35	10-15
	38-51	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	90-100	85-100	80-95	75-90	30-40	10-20
	51-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	90-100	85-100	80-95	75-90	35-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9341:												
Sinkler---------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	90-100	85-100	85-95	80-90	20-30	NP-10
	6-12	*Ashy silt loam	*CL-ML, ML, CL	*A-4	0	0	95-100	90-100	85-95	80-90	20-30	NP-10
	12-20	*Silt loam	*CL-ML, CL	*A-4	0	0	90-100	85-100	85-95	80-90	20-30	5-10
	20-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	90-100	85-100	85-95	80-90	25-35	5-15
	28-38	*Silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	80-95	75-90	25-35	10-15
	38-51	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	90-100	85-100	80-95	75-90	30-40	10-20
	51-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	90-100	85-100	80-95	75-90	35-45	15-25
Arson-----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9341:												
Benewah---------	0-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-30	NP-10
	6-15	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	20-30	NP-10
	15-18	*Silt loam	*CL-ML, ML	*A-4	0	0-10	95-100	90-100	90-100	85-95	15-25	NP-5
	18-23	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	85-95	25-35	10-15
	23-34	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0-10	90-100	85-100	85-100	80-95	30-40	10-20
	34-60	*Silty clay loam, gravelly silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0-10	80-100	75-100	70-100	70-90	30-45	10-25
Sharptop--------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-95	80-90	20-30	NP-5
	4-9	*Ashy silt loam	*ML	*A-4	0	0	90-100	85-100	80-95	75-90	20-30	NP-5
	9-17	*Silt loam, gravelly silt loam	*CL-ML, CL	*A-4	0	0	80-100	75-100	75-90	65-85	20-30	5-10
	17-27	*Silt loam, gravelly silt loam	*CL, CL-ML	*A-4, A-6	0	0	80-100	75-100	70-90	60-80	25-30	5-15
	27-42	*Silt loam, gravelly silt loam, silty clay loam	*CL, CL-ML	*A-4, A-6	0	0	75-100	70-100	65-90	55-85	25-35	5-15
	42-49	*Paragravelly silt loam, silty clay loam, silt loam	*CL	*A-6, A-4	0	0	70-100	65-100	60-95	50-85	25-40	10-20
	49-59	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9341:												
Bechtel---------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	80-100	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	80-90	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-90	60-85	20-30	NP-5
	4-9	*Ashy silt loam	*ML	*A-4	0	0	85-100	80-100	70-85	60-80	20-30	NP-5
	9-17	*Silt loam, loam, gravelly silt loam	*CL-ML, CL, SC-SM	*A-4	0	0	75-95	70-85	60-80	45-60	20-30	5-10
	17-26	*Silt loam, gravelly silt loam, gravelly loam	*CL, SC-SM	*A-4, A-6	0	0	75-95	70-85	60-80	45-60	25-35	5-15
	26-35	*Very gravelly loam, very gravelly silt loam, gravelly silt loam	*GC, GC-GM	*A-2, A-1, A-6	0	0	45-55	40-50	35-45	25-40	25-35	5-15
	35-56	*Extremely gravelly loam, extremely cobbly loam, very gravelly silt loam	*GP-GC, GC	*A-1, A-2	0	0-45	15-40	10-35	10-30	5-25	20-30	5-15
	56-66	*Bedrock	---	---	---	---	---	---	---	---	---	---
Grangemont, warm	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*ML	*A-4, A-5	0	0	100	100	90-100	85-95	25-45	NP-5
	4-10	*Ashy silt loam	*ML	*A-4, A-5	0	0	100	100	90-100	85-95	25-45	NP-5
	10-18	*Silt loam	*CL-ML, CL	*A-4	0	0	100	95-100	90-100	85-95	20-25	5-10
	18-25	*Silt loam	*CL-ML, CL	*A-4	0	0	100	95-100	90-100	85-95	20-30	5-10
	25-34	*Silt loam, silty clay loam	*CL, CL-ML	*A-4, A-6	0	0	100	95-100	90-100	85-95	25-35	5-15
	34-42	*Silt loam, silty clay loam	*CL, CL-ML	*A-4, A-6	0	0	100	95-100	90-100	85-95	25-35	5-15
	42-53	*Silt loam, silty clay loam	*CL, CL-ML	*A-4, A-6	0	0	100	95-100	90-100	85-95	25-35	5-15
	53-63	*Cobbly silty clay loam, silty clay loam	*CL	*A-6, A-4	0	0-30	95-100	90-100	85-95	80-90	25-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9342:												
Sinkler, dry----	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-8	*Ashy silt loam	*CL-ML, ML, CL	*A-4	0	0	90-100	85-100	85-95	80-90	20-30	NP-10
	8-14	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	90-100	85-100	85-95	80-90	25-35	5-15
	14-20	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	85-95	80-90	25-35	5-15
	20-33	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	85-95	80-90	25-40	10-20
	33-44	*Silty clay loam, silt loam	*CL	*A-6	0	0	90-100	85-100	80-95	75-90	30-40	15-20
	44-62	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	90-100	85-100	80-95	75-90	30-45	15-20
Arson, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9342:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9342:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Sinkler---------	0-0.5	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	0.5-1	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-6	*Ashy silt loam	*CL-ML, CL, ML	*A-4	0	0	90-100	85-100	85-95	80-90	20-30	NP-10
	6-12	*Ashy silt loam	*CL-ML, ML, CL	*A-4	0	0	95-100	90-100	85-95	80-90	20-30	NP-10
	12-20	*Silt loam	*CL-ML, CL	*A-4	0	0	90-100	85-100	85-95	80-90	20-30	5-10
	20-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	90-100	85-100	85-95	80-90	25-35	5-15
	28-38	*Silt loam	*CL	*A-6, A-4	0	0	90-100	85-100	80-95	75-90	25-35	10-15
	38-51	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	90-100	85-100	80-95	75-90	30-40	10-20
	51-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	90-100	85-100	80-95	75-90	35-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9350:												
Southwick-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	25-40	NP-10
	6-13	*Silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	90-100	25-40	5-10
	13-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	28-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-10
	31-49	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	49-54	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	54-70	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
Larkin----------	0-6	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	6-14	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	14-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-100	30-40	10-20
	22-39	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
	39-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Latahco---------	0-13	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	13-20	*Silt loam, very fine sandy loam	*CL-ML, CL, ML	*A-4	0	0	100	100	85-100	80-100	15-30	NP-10
	20-26	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	26-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	42-51	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	51-62	*Silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-100	80-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9350:												
Cald	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, ML	*A-6, A-4	0	0	100	100	98-100	95-100	20-35	3-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25
Driscoll	0-5	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	5-10	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	10-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	85-100	25-35	5-15
	17-24	*Silt loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	20-35	5-15
	24-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-100	20-30	5-10
	26-42	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	42-49	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	49-60	*Silty clay loam, silty clay	*CL, CH	*A-6, A-7	0	0	95-100	90-100	90-100	85-95	35-50	15-25
Taney	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9355:												
Southwick-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	25-40	NP-10
	6-13	*Silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	90-100	25-40	5-10
	13-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	28-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-10
	31-49	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	49-54	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	54-70	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
Driscoll--------	0-5	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	5-10	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	10-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	85-100	25-35	5-15
	17-24	*Silt loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	20-35	5-15
	24-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-100	20-30	5-10
	26-42	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	42-49	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	49-60	*Silty clay loam, silty clay	*CL, CH	*A-6, A-7	0	0	95-100	90-100	90-100	85-95	35-50	15-25
Larkin----------	0-6	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	6-14	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	14-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-100	30-40	10-20
	22-39	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
	39-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Latahco---------	0-13	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	13-20	*Silt loam, very fine sandy loam	*CL-ML, CL, ML	*A-4	0	0	100	100	85-100	80-100	15-30	NP-10
	20-26	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	26-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	42-51	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	51-62	*Silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-100	80-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9355:												
Cald	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, ML	*A-6, A-4	0	0	100	100	98-100	95-100	20-35	3-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25
Garfield	0-5	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	5-8	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	100	100	98-100	95-100	30-50	10-25
9356:												
Southwick	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	25-40	NP-10
	6-13	*Silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	90-100	25-40	5-10
	13-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	28-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-10
	31-49	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	49-54	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	54-70	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9356:												
Driscoll--------	0-5	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	5-10	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	10-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	85-100	25-35	5-15
	17-24	*Silt loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	20-35	5-15
	24-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-100	20-30	5-10
	26-42	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	42-49	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	49-60	*Silty clay loam, silty clay	*CL, CH	*A-6, A-7	0	0	95-100	90-100	90-100	85-95	35-50	15-25
Larkin----------	0-6	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	6-14	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	14-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-100	30-40	10-20
	22-39	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
	39-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Garfield--------	0-7	*Silty clay loam	*CL, CH	*A-6, A-7	0	0	100	100	98-100	95-100	35-50	15-25
	7-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	100	100	98-100	95-100	30-50	10-25
Cald------------	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, ML	*A-6, A-4	0	0	100	100	98-100	95-100	20-35	3-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9363:												
Larkin----------	0-6	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	6-14	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	14-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-100	30-40	10-20
	22-39	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
	39-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
Driscoll--------	0-5	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	5-10	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	10-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	85-100	25-35	5-15
	17-24	*Silt loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	20-35	5-15
	24-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-100	20-30	5-10
	26-42	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	42-49	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	49-60	*Silty clay loam, silty clay	*CL, CH	*A-6, A-7	0	0	95-100	90-100	90-100	85-95	35-50	15-25
Southwick-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	25-40	NP-10
	6-13	*Silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	90-100	25-40	5-10
	13-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	28-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-10
	31-49	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	49-54	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	54-70	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
Latahco---------	0-13	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	13-20	*Silt loam, very fine sandy loam	*CL-ML, CL, ML	*A-4	0	0	100	100	85-100	80-100	15-30	NP-10
	20-26	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	26-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	42-51	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	51-62	*Silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-100	80-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9363:												
Cald	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, ML	*A-6, A-4	0	0	100	100	98-100	95-100	20-35	3-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25
Garfield	0-5	*Silt loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	5-8	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	10-15
	8-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	100	100	98-100	95-100	30-50	10-25
9364:												
Larkin	0-6	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	6-14	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	14-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-100	30-40	10-20
	22-39	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
	39-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9364:												
Southwick-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	25-40	NP-10
	6-13	*Silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	90-100	25-40	5-10
	13-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	28-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-10
	31-49	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	49-54	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	54-70	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25
Driscoll--------	0-5	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	5-10	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	10-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	85-100	25-35	5-15
	17-24	*Silt loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	20-35	5-15
	24-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-100	20-30	5-10
	26-42	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	42-49	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	49-60	*Silty clay loam, silty clay	*CL, CH	*A-6, A-7	0	0	95-100	90-100	90-100	85-95	35-50	15-25
Latahco---------	0-13	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	13-20	*Silt loam, very fine sandy loam	*CL-ML, CL, ML	*A-4	0	0	100	100	85-100	80-100	15-30	NP-10
	20-26	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	26-42	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	42-51	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	35-45	15-25
	51-62	*Silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-100	80-100	30-40	10-20

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9364:												
Cald	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, ML	*A-6, A-4	0	0	100	100	98-100	95-100	20-35	3-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25
Taney	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	2-4	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	4-15	*Ashy silt loam	*ML	*A-4	0	0	100	100	90-100	85-95	25-35	NP-10
	15-22	*Silt loam	*CL, ML, CL-ML	*A-4	0	0	100	100	90-100	85-95	25-35	5-10
	22-29	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-95	25-35	5-15
	29-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	90-100	85-95	15-30	NP-10
	31-53	*Silty clay loam, silt loam	*CL	*A-6, A-4	0	0	95-100	90-100	85-95	85-95	30-40	10-20
	53-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	95-100	90-100	85-95	85-95	30-45	15-25
9367:												
Larkin	0-6	*Silt loam	*ML, CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	6-14	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	90-100	85-100	25-40	5-15
	14-22	*Silt loam	*CL	*A-6, A-4	0	0	100	100	90-100	85-100	30-40	10-20
	22-39	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	95-100	90-100	90-100	85-95	30-40	10-20
	39-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9367:												
Driscoll--------	0-5	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	5-10	*Silt loam	*CL-ML, ML	*A-4	0	0	100	100	90-100	85-100	20-35	5-10
	10-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	90-100	85-100	25-35	5-15
	17-24	*Silt loam	*CL-ML, CL	*A-4, A-6	0	0	100	100	90-100	85-100	20-35	5-15
	24-26	*Silt loam	*CL-ML, CL	*A-4	0	0	100	100	90-100	85-100	20-30	5-10
	26-42	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	42-49	*Silty clay, silty clay loam	*CH, CL	*A-7, A-6	0	0	100	100	95-100	90-100	40-55	20-35
	49-60	*Silty clay loam, silty clay	*CL, CH	*A-6, A-7	0	0	95-100	90-100	90-100	85-95	35-50	15-25
Garfield--------	0-7	*Silty clay loam	*CL, CH	*A-6, A-7	0	0	100	100	98-100	95-100	35-50	15-25
	7-19	*Silty clay loam, silty clay	*CL, CH	*A-7	0	0	100	100	98-100	95-100	45-50	20-30
	19-32	*Silty clay, silty clay loam	*CH, CL	*A-7	0	0	100	100	98-100	95-100	45-50	20-28
	32-45	*Silty clay loam, silt loam	*CL, CH	*A-7, A-6	0	0	100	100	98-100	95-100	35-50	15-30
	45-60	*Silty clay loam, silt loam	*CL, CH	*A-7, A-4	0	0	100	100	98-100	95-100	30-50	10-25
Southwick-------	0-6	*Ashy silt loam	*ML	*A-4	0	0	100	100	95-100	90-100	25-40	NP-10
	6-13	*Silt loam	*ML, CL-ML	*A-4	0	0	100	100	95-100	90-100	25-40	5-10
	13-28	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	28-31	*Silt loam	*CL-ML, CL, ML	*A-4	0	0	100	100	95-100	90-100	20-30	NP-10
	31-49	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	49-54	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	35-45	15-25
	54-70	*Silt loam, silty clay loam	*CL	*A-6, A-7	0	0	100	100	95-100	95-100	30-45	15-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9367:												
Cald	0-7	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	7-13	*Silt loam	*ML, CL, CL-ML	*A-4, A-6	0	0	100	100	98-100	95-100	25-35	5-15
	13-17	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	100	100	98-100	95-100	25-35	5-15
	17-25	*Stratified silt loam to very fine sandy loam	*CL, ML	*A-6, A-4	0	0	100	100	98-100	95-100	20-35	3-15
	25-40	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	40-48	*Silt loam, silty clay loam	*CL	*A-6, A-4	0	0	100	100	98-100	95-100	30-40	10-20
	48-60	*Silty clay loam, silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	98-100	95-100	30-45	10-25
9610:												
Schumacher	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-8	*Silt loam	*ML	*A-7, A-4	0	0	85-100	80-100	75-95	70-90	35-50	9-16
	8-20	*Silt loam	*CL	*A-6, A-7	0	0	85-100	80-100	75-95	70-90	30-45	11-17
	20-27	*Silt loam	*CL	*A-6	0	0	85-100	80-100	75-95	70-90	30-40	13-18
	27-34	*Gravelly silt loam, gravelly silty clay loam	*CL	*A-6, A-7	0	0	70-80	65-75	60-75	55-70	30-45	14-20
	34-41	*Very cobbly clay loam, very cobbly silty clay loam, cobbly silt loam	*CL, GC	*A-7, A-6	0	20-35	60-70	55-65	50-60	45-55	35-45	17-21
	41-47	*Gravelly clay loam, very gravelly silty clay loam, cobbly silt loam	*CL	*A-6, A-7	0	5-20	65-80	60-75	55-70	50-60	35-45	16-21
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tekoa	0-7	*Gravelly ashy silt loam	*GM, MH	*A-5, A-4	0	0	55-75	50-70	45-65	40-60	40-55	NP-5
	7-13	*Very cobbly silt loam, gravelly silt loam	*CL, ML, GC-GM	*A-6, A-4, A-7	0	10-30	65-80	60-75	55-70	40-65	30-45	7-15
	13-17	*Very cobbly silt loam, very gravelly silt loam	*GC, GM	*A-7, A-2	0	15-45	45-65	40-60	35-55	30-50	30-45	9-17
	17-27	*Very cobbly silty clay loam, extremely gravelly loam, very cobbly clay loam	*GC	*A-7, A-2	0	20-40	45-55	40-50	35-45	30-40	35-45	14-21
	27-33	*Very gravelly silty clay loam, extremely cobbly clay loam, very cobbly loam	*GC	*A-2, A-7	0	15-35	35-55	30-50	25-45	20-40	35-45	17-25
	33-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9610:												
Libertybutte----	0-4	*Gravelly silt loam	*ML, GC-GM	*A-4, A-7	0	0	55-75	50-75	45-70	40-65	25-45	6-13
	4-11	*Gravelly silt loam, gravelly loam	*CL, GC, ML	*A-6, A-7, A-4	0	0	60-75	55-75	50-70	45-65	30-45	9-17
	11-16	*Very gravelly silt loam, gravelly loam	*GC, CL	*A-6, A-2	0	0-19	50-65	45-65	40-60	35-55	25-40	9-17
	16-19	*Bedrock	---	---	---	---	---	---	---	---	---	---
	19-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GM, MH	*A-5, A-4	0	0-25	55-75	50-70	45-65	35-55	40-55	NP-5
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2	0	20-50	45-60	40-55	35-50	30-45	20-40	6-17
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL, GM	*A-4, A-6, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-30	2-13
	42-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Larkin----------	0-6	*Silt loam	*CL, ML	*A-6, A-7, A-4	0	0	100	100	90-100	85-100	30-45	9-17
	6-14	*Silt loam	*CL	*A-6, A-7, A-4	0	0	100	100	90-100	85-100	30-45	9-17
	14-22	*Silt loam	*CL	*A-6, A-7	0	0	100	100	90-100	85-100	30-45	12-21
	22-39	*Silt loam, silty clay loam	*CL	*A-6	0	0	95-100	90-100	90-100	85-95	30-40	15-21
	39-60	*Silty clay loam, silt loam	*CL	*A-6, A-7	0	0	100	100	95-100	90-100	35-45	17-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9611:												
Schumacher------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-8	*Silt loam	*ML, CL-ML	*A-4	0	0	85-100	80-100	75-95	70-90	25-35	5-10
	8-20	*Silt loam	*ML, CL	*A-4, A-6	0	0	85-100	80-100	75-95	70-90	30-40	5-15
	20-27	*Silt loam	*CL	*A-6, A-4	0	0	85-100	80-100	75-95	70-90	30-40	10-15
	27-34	*Gravelly silt loam, gravelly silty clay loam	*CL	*A-6, A-4	0	0	70-80	65-75	60-75	55-70	30-40	10-20
	34-41	*Very cobbly clay loam, very cobbly silty clay loam, cobbly silt loam	*CL, GC	*A-6	0	20-35	60-70	55-65	50-60	45-55	35-40	15-20
	41-47	*Gravelly clay loam, very gravelly silty clay loam, cobbly silt loam	*CL	*A-6	0	5-20	65-80	60-75	55-70	50-60	30-40	15-20
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tekoa-----------	0-7	*Gravelly ashy silt loam	*GC-GM, GM, ML	*A-4	0	0	55-75	50-70	45-65	40-60	20-35	NP-10
	7-13	*Very cobbly silt loam, gravelly silt loam	*CL, ML, GC-GM	*A-4	0	10-30	65-80	60-75	55-70	40-65	20-35	5-10
	13-17	*Very cobbly silt loam, very gravelly silt loam	*GM, GC-GM, GC	*A-4, A-2, A-6	0	15-45	45-65	40-60	35-55	30-50	25-40	5-15
	17-27	*Very cobbly silty clay loam, extremely gravelly loam, very cobbly clay loam	*GC	*A-6, A-2	0	20-40	45-55	40-50	35-45	30-40	30-40	10-20
	27-33	*Very gravelly silty clay loam, extremely cobbly clay loam, very cobbly loam	*GC	*A-2, A-7	0	15-35	35-55	30-50	25-45	20-40	30-45	15-25
	33-43	*Bedrock	---	---	---	---	---	---	---	---	---	---
Libertybutte----	0-4	*Gravelly silt loam	*GC-GM, ML	*A-4	0	0	55-75	50-75	45-70	40-65	20-35	5-10
	4-11	*Gravelly silt loam, gravelly loam	*ML, GC, CL	*A-4, A-6	0	0	60-75	55-75	50-70	45-65	30-40	10-15
	11-16	*Very gravelly silt loam, gravelly loam	*GM, CL, GC	*A-4, A-6	0	0-19	50-65	45-65	40-60	35-55	30-40	10-15
	16-19	*Bedrock	---	---	---	---	---	---	---	---	---	---
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9611:												
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---
Arson, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9612:												
Libertybutte----	0-4	*Gravelly silt loam	*CL-ML GC-GM, ML	*A-4	0	0	55-75	55-75	45-70	40-65	20-35	5-10
	4-11	*Gravelly silt loam, gravelly loam	*ML, GC, CL	*A-4, A-6	0	0	60-75	55-75	50-70	45-65	30-40	10-15
	11-16	*Very gravelly silt loam, gravelly loam	*GM, CL, GC	*A-4, A-2, A-6	0	0-19	50-65	45-65	40-60	35-55	30-40	10-15
	16-19	*Bedrock	---	---	---	---	---	---	---	---	---	---
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tekoa----------	0-7	*Gravelly ashy silt loam	*GC-GM, GM, ML	*A-4	0	0	55-75	50-70	45-65	40-60	20-35	NP-10
	7-13	*Very cobbly silt loam, gravelly silt loam	*CL, ML, GC-GM	*A-4	0	10-30	65-80	60-75	55-70	40-65	20-35	5-10
	13-17	*Very cobbly silt loam, very gravelly silt loam	*GM, GC-GM, GC	*A-4, A-2, A-6	0	15-45	45-65	40-60	35-55	30-50	25-40	5-15
	17-27	*Very cobbly silty clay loam, extremely gravelly loam, very cobbly clay loam	*GC	*A-6, A-2	0	20-40	45-55	40-50	35-45	30-40	30-40	10-20
	27-33	*Very gravelly silty clay loam, extremely cobbly clay loam, very cobbly loam	*GC	*A-2, A-7	0	15-35	35-55	30-50	25-45	20-40	30-45	15-25
	33-43	*Bedrock	---	---	---	---	---	---	---	---	---	---
Schumacher------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-8	*Silt loam	*ML, CL-ML	*A-4	0	0	85-100	80-100	75-95	70-90	25-35	5-10
	8-20	*Silt loam	*ML, CL	*A-4, A-6	0	0	85-100	80-100	75-95	70-90	30-40	5-15
	20-27	*Silt loam	*CL	*A-6, A-4	0	0	85-100	80-100	75-95	70-90	30-40	10-15
	27-34	*Gravelly silt loam, gravelly silty clay loam	*CL	*A-6, A-4	0	0	70-80	65-75	60-75	55-70	30-40	10-20
	34-41	*Very cobbly clay loam, very cobbly silty clay loam, cobbly silt loam	*CL, GC	*A-6	0	20-35	60-70	55-65	50-60	45-55	35-40	15-20
	41-47	*Gravelly clay loam, very gravelly silty clay loam, cobbly silt loam	*CL	*A-6	0	5-20	65-80	60-75	55-70	50-60	30-40	15-20
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9612:												
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	34-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9613:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9613:												
Arson, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9614:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9614:												
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	34-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---
Pinecreek-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*GM, MH	*A-4, A-2, A-5	0	0	60-95	55-90	55-85	50-80	35-50	NP-5
	6-12	*Gravelly ashy silt loam	*GM, ML	*A-4, A-2	0	0	60-95	55-90	55-85	50-80	30-40	NP-5
	12-19	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0-10	60-95	55-90	55-85	50-80	30-40	NP-5
	19-24	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-10	60-95	55-90	55-85	50-80	25-40	NP-5
	24-30	*Very gravelly loam, extremely gravelly loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0	0-35	30-50	25-45	20-40	15-30	15-25	NP-5
	30-70	*Extremely cobbly loam, extremely flaggy loam, extremely gravelly sandy loam	*GM, GP-GM, GC-GM	*A-1	0-30	15-55	15-40	10-40	10-35	5-25	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9617:												
Tekoa----------	0-7	*Gravelly ashy silt loam	*GC-GM, GM, ML	*A-4	0	0	55-75	50-70	45-65	40-60	20-35	NP-10
	7-13	*Very cobbly silt loam, gravelly silt loam	*CL, ML, GC-GM	*A-4	0	10-30	65-80	60-75	55-70	40-65	20-35	5-10
	13-17	*Very cobbly silt loam, very gravelly silt loam	*GM, GC-GM, GC	*A-4, A-2, A-6	0	15-45	45-65	40-60	35-55	30-50	25-40	5-15
	17-27	*Very cobbly silty clay loam, extremely gravelly loam, very cobbly clay loam	*GC	*A-6, A-2	0	20-40	45-55	40-50	35-45	30-40	30-40	10-20
	27-33	*Very gravelly silty clay loam, extremely cobbly clay loam, very cobbly loam	*GC	*A-2, A-7	0	15-35	35-55	30-50	25-45	20-40	30-45	15-25
	33-43	*Bedrock	---	---	---	---	---	---	---	---	---	---
Schumacher------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-8	*Silt loam	*ML, CL-ML	*A-4	0	0	85-100	80-100	75-95	70-90	25-35	5-10
	8-20	*Silt loam	*ML, CL	*A-4, A-6	0	0	85-100	80-100	75-95	70-90	30-40	5-15
	20-27	*Silt loam	*CL	*A-6, A-4	0	0	85-100	80-100	75-95	70-90	30-40	10-15
	27-34	*Gravelly silt loam, gravelly silty clay loam	*CL	*A-6, A-4	0	0	70-80	65-75	60-75	55-70	30-40	10-20
	34-41	*Very cobbly clay loam, very cobbly silty clay loam, cobbly silt loam	*CL, GC	*A-6	0	20-35	60-70	55-65	50-60	45-55	35-40	15-20
	41-47	*Gravelly clay loam, very gravelly silty clay loam, cobbly silt loam	*CL	*A-6	0	5-20	65-80	60-75	55-70	50-60	30-40	15-20
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Libertybutte----	0-4	*Gravelly silt loam	*GC-GM, ML	*A-4	0	0	55-75	50-75	45-70	40-65	20-35	5-10
	4-11	*Gravelly silt loam, gravelly loam	*ML, GC, CL	*A-4, A-6	0	0	60-75	55-75	50-70	45-65	30-40	10-15
	11-16	*Very gravelly silt loam, gravelly loam	*GM, CL, GC	*A-4, A-6	0	0-19	50-65	45-65	40-60	35-55	30-40	10-15
	16-19	*Bedrock	---	---	---	---	---	---	---	---	---	---
	19-29	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9617:												
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---
Arson, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9701:												
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9701:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9701:												
Huckle, dry-----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-85	55-80	30-50	NP-5
	4-8	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-90	55-80	30-50	NP-5
	8-19	*Gravelly ashy silt loam, ashy silt loam	*ML, MH, GM	*A-4, A-5	0	0	60-90	55-85	50-80	45-70	30-50	NP-5
	19-28	*Very cobbly silt loam, very gravelly loam, extremely cobbly loam	*GM, GC-GM	*A-4, A-1	0	25-65	40-70	35-65	30-60	25-50	15-25	NP-5
	28-38	*Extremely cobbly silt loam, very gravelly silt loam, very cobbly fine sandy loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4, A-1	0	10-60	35-65	30-60	20-55	15-45	15-25	NP-5
	38-47	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam, extremely cobbly fine sandy loam	*GM, GW-GM, GC-GM	*A-1, A-2	0-15	20-65	35-65	30-60	20-55	10-30	15-25	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	34-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9703:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, GM	*A-5, A-4	0	0	60-75	50-70	45-65	40-60	40-55	NP-5
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, GM	*A-4	0	0	60-75	50-70	45-65	40-60	30-40	NP-5
	11-18	*Very gravelly loam, very gravelly silt loam	*GC-GM, GC, GM	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-35	2-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GC-GM, GC, GM	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-30	2-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GC-GM, GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-25	2-6
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GC-GM, GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-25	2-6
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, MH, GM	*A-5, A-4	0	0	65-75	60-70	55-65	45-60	40-55	NP-5
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	30-40	NP-5
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GC-GM, GC, GM	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-30	2-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GC-GM, GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-25	2-6
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GC-GM, GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-25	2-6
	48-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9703:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	40-55	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-40	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-25	1-6
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GC-GM, GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	0-25	NP-6
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GM, MH	*A-5, A-4	0	0-25	55-75	50-70	45-65	35-55	40-55	NP-5
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2	0	20-50	45-60	40-55	35-50	30-45	20-40	6-17
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL, GM	*A-4, A-6, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-30	2-13
	42-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9703:												
Huckle, dry-----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-5, A-4	0	0	75-100	75-100	70-85	55-80	40-55	NP-5
	4-8	*Ashy silt loam, gravelly ashy silt loam	*ML	*A-4	0	0	75-100	75-100	70-90	55-80	30-40	NP-5
	8-19	*Gravelly ashy silt loam, ashy silt loam	*ML, GM	*A-4	0	0	60-90	55-85	50-80	45-70	30-40	NP-5
	19-28	*Very cobbly silt loam, extremely cobbly loam, very gravelly loam	*GC-GM, GC, GM	*A-4, A-1	0	25-65	40-70	35-65	30-60	25-50	15-25	2-10
	28-38	*Extremely cobbly silt loam, very gravelly silt loam, very cobbly fine sandy loam, extremely cobbly loam	*GC-GM, GC, GM	*A-2, A-4, A-1	0	10-60	35-65	30-60	20-55	15-45	15-25	2-10
	38-47	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam, extremely cobbly fine sandy loam	*GC-GM GW-GM, GC	*A-1, A-2	0-15	20-65	35-65	30-60	20-55	10-30	15-25	2-10
	47-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	30-40	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	30-40	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-2, A-1	0-65	30-55	15-35	15-35	10-35	5-25	20-35	2-13
	14-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9704:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, MH, GM	*A-5, A-4	0	0	60-75	50-70	45-65	40-60	40-55	NP-5
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, GM	*A-4	0	0	60-75	50-70	45-65	40-60	30-40	NP-5
	11-18	*Very gravelly loam, very gravelly silt loam	*GC-GM, GC, GM	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-35	2-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GC-GM, GC, GM	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-30	2-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GC-GM, GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-25	2-6
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GC-GM, GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-25	2-6
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, MH, GM	*A-5, A-4	0	0	65-75	60-70	55-65	45-60	40-55	NP-5
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	30-40	NP-5
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GC-GM, GC, GM	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-30	2-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GC-GM, GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-25	2-6
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GC-GM, GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-25	2-6
	48-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9704:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	40-55	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-40	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-25	1-6
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GC-GM, GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	0-25	NP-6
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GM, MH	*A-5, A-4	0	0-25	55-75	50-70	45-65	35-55	40-55	NP-5
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2	0	20-50	45-60	40-55	35-50	30-45	20-40	6-17
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL, GM	*A-4, A-6, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-30	2-13
	42-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9704:												
Arson, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*ML, MH	*A-5, A-4	0	0	95-100	90-100	90-100	85-95	40-55	NP-5
	5-9	*Ashy silt loam	*ML	*A-4	0	0	95-100	90-100	85-100	80-95	30-40	NP-5
	9-15	*Silt loam	*CL	*A-6	0	0	95-100	90-100	80-90	75-85	30-35	11-16
	15-38	*Silt loam	*CL	*A-6	0	0	90-100	85-100	75-85	70-80	30-40	12-18
	38-43	*Very gravelly silt loam, extremely gravelly loam, gravelly silt loam	*GC	*A-2, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	12-18
	43-57	*Very gravelly silt loam, very gravelly loam, extremely gravelly silt loam	*GC	*A-2, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	10-18
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	30-40	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	34-55	30-50	20-45	15-35	30-40	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-2, A-1	0-65	30-55	15-35	15-35	10-35	5-25	20-35	2-13
	14-60	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9706:												
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9706:												
Huckle----------	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-85	55-80	30-50	NP-5
	4-8	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-90	55-80	30-50	NP-5
	8-19	*Gravelly ashy silt loam, ashy silt loam	*ML, MH, GM	*A-4, A-5	0	0	60-90	55-85	50-80	45-70	30-50	NP-5
	19-28	*Very cobbly silt loam, very gravelly loam, extremely cobbly loam	*GM, GC-GM	*A-4, A-1	0	25-65	40-70	35-65	30-60	25-50	15-25	NP-5
	28-38	*Extremely cobbly silt loam, very gravelly silt loam, very cobbly fine sandy loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4, A-1	0	10-60	35-65	30-60	20-55	15-45	15-25	NP-5
	38-47	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam, extremely cobbly fine sandy loam	*GM, GW-GM, GC-GM	*A-1, A-2	0-15	20-65	35-65	30-60	20-55	10-30	15-25	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9706:												
Saint Maries, dry----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Gravelly ashy silt loam	*GM, GC-GM	*A-4	0	0	55-65	50-60	45-55	40-50	15-25	NP-5
	5-9	*Gravelly ashy silt loam	*GM, GC-GM	*A-4, A-2	0	0	50-60	45-55	40-50	35-45	15-25	NP-5
	9-17	*Extremely cobbly ashy silt loam, very cobbly ashy silt loam	*GM, GC-GM	*A-1	0	15-50	30-40	25-35	20-30	20-25	15-25	NP-5
	17-24	*Extremely cobbly silt loam, extremely cobbly loam	*GM, GC-GM	*A-1, A-2	0	30-60	35-45	30-40	25-35	20-30	15-20	NP-5
	24-32	*Extremely cobbly silt loam, very gravelly silt loam, extremely cobbly loam	*GM, GP-GM, GC-GM	*A-1	0	35-55	25-40	20-35	15-30	10-25	15-20	NP-5
	32-50	*Extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1	0	45-75	30-40	25-35	20-30	10-25	15-20	NP-5
	50-60	*Extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1	0	30-55	20-40	15-35	10-30	5-25	15-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9707:												
Huckle, dry-----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-85	55-80	30-50	NP-5
	4-8	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-90	55-80	30-50	NP-5
	8-19	*Gravelly ashy silt loam, ashy silt loam	*ML, MH, GM	*A-4, A-5	0	0	60-90	55-85	50-80	45-70	30-50	NP-5
	19-28	*Very cobbly silt loam, very gravelly loam, extremely cobbly loam	*GM, GC-GM	*A-4, A-1	0	25-65	40-70	35-65	30-60	25-50	15-25	NP-5
	28-38	*Extremely cobbly silt loam, very gravelly silt loam, very cobbly fine sandy loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4, A-1	0	10-60	35-65	30-60	20-55	15-45	15-25	NP-5
	38-47	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam, extremely cobbly fine sandy loam	*GM, GW-GM, GC-GM	*A-1, A-2	0-15	20-65	35-65	30-60	20-55	10-30	15-25	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9707:												
Ahrs----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-25	45-55	40-50	35-45	30-40	30-40	NP-5
	6-14	*Very gravelly ashy silt loam, cobbly ashy silt loam, gravelly ashy silt loam	*GM	*A-2, A-1	0	0-25	40-50	35-45	30-45	25-35	30-40	NP-5
	14-23	*Very gravelly ashy silt loam, very cobbly ashy silt loam, extremely gravelly ashy silt loam	*GM	*A-1, A-2	0	0-50	35-45	30-40	25-35	20-30	25-35	NP-5
	23-30	*Very cobbly loam, very cobbly silt loam, extremely gravelly silt loam	*GM, GC-GM	*A-1, A-2	0	10-60	35-45	30-40	25-35	20-30	0-20	NP-5
	30-41	*Extremely cobbly loam, extremely gravelly loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0	35-70	35-45	30-40	25-35	20-30	0-20	NP-5
	41-51	*Extremely cobbly silt loam, extremely cobbly loam	*GM, GC-GM	*A-1, A-2	0	55-80	35-45	30-40	25-35	20-30	0-20	NP-5
	51-60	*Extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0	45-70	35-45	30-40	25-35	20-30	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9707:												
Saint Maries, dry----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Gravelly ashy silt loam	*GM, GC-GM	*A-4	0	0	55-65	50-60	45-55	40-50	15-25	NP-5
	5-9	*Gravelly ashy silt loam	*GM, GC-GM	*A-4, A-2	0	0	50-60	45-55	40-50	35-45	15-25	NP-5
	9-17	*Extremely cobbly ashy silt loam, very cobbly ashy silt loam	*GM, GC-GM	*A-1	0	15-50	30-40	25-35	20-30	20-25	15-25	NP-5
	17-24	*Extremely cobbly silt loam, extremely cobbly loam	*GM, GC-GM	*A-1, A-2	0	30-60	35-45	30-40	25-35	20-30	15-20	NP-5
	24-32	*Extremely cobbly silt loam, very gravelly silt loam, extremely cobbly loam	*GM, GP-GM, GC-GM	*A-1	0	35-55	25-40	20-35	15-30	10-25	15-20	NP-5
	32-50	*Extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1	0	45-75	30-40	25-35	20-30	10-25	15-20	NP-5
	50-60	*Extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1	0	30-55	20-40	15-35	10-30	5-25	15-20	NP-5
Rasser----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	60-100	55-100	50-90	45-85	20-30	NP-10
	4-11	*Ashy silt loam, gravelly ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	55-100	50-100	45-90	40-85	20-30	NP-10
	11-20	*Very cobbly silt loam, very gravelly loam, gravelly silt loam	*CL, GC-GM	*A-4, A-6, A-1	0	0-45	40-75	35-70	30-65	25-60	25-35	5-15
	20-41	*Very gravelly silty clay loam, very cobbly silt loam, extremely cobbly clay loam	*GC	*A-2, A-6	0	5-45	40-60	35-55	30-50	25-45	30-40	10-20
	41-60	*Very cobbly silty clay loam, extremely gravelly silt loam, extremely cobbly loam	*SC, GC	*A-6, A-7, A-2	0	30-55	30-70	25-65	20-60	20-50	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9707:												
Honeyjones, warm	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-90	70-85	65-80	50-75	30-50	NP-5
	3-7	*Ashy silt loam	*ML, MH	*A-4, A-5	0	0	70-90	65-85	65-80	50-75	30-50	NP-5
	7-19	*Ashy silt loam, gravelly ashy silt loam	*ML, MH, GM	*A-4, A-5	0	0-30	60-90	55-85	50-80	45-70	30-50	NP-5
	19-24	*Very gravelly silt loam, extremely gravelly silt loam, extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0	0-50	40-60	35-55	30-45	25-35	15-25	NP-5
	24-35	*Extremely gravelly loam, extremely gravelly silt loam, extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1, A-2	0	10-60	30-45	25-40	20-35	10-30	15-25	NP-5
	35-47	*Extremely cobbly loam, extremely stony silt loam, extremely gravelly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1, A-2	0-60	10-60	25-45	20-40	15-35	10-30	15-25	NP-5
	47-60	*Extremely stony silt loam, extremely stony loam, extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1, A-2	0-60	10-60	25-45	20-40	15-35	10-30	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9710:												
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9710:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9710:												
Arson----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tekoa----------	0-7	*Gravelly ashy silt loam	*GC-GM, GM, ML	*A-4	0	0	55-75	50-70	45-65	40-60	20-35	NP-10
	7-13	*Very cobbly silt loam, gravelly silt loam	*CL, ML, GC-GM	*A-4	0	10-30	65-80	60-75	55-70	40-65	20-35	5-10
	13-17	*Very cobbly silt loam, very gravelly silt loam	*GM, GC-GM, GC	*A-4, A-2, A-6	0	15-45	45-65	40-60	35-55	30-50	25-40	5-15
	17-27	*Very cobbly silty clay loam, extremely gravelly loam, very cobbly clay loam	*GC	*A-6, A-2	0	20-40	45-55	40-50	35-45	30-40	30-40	10-20
	27-33	*Very gravelly silty clay loam, extremely cobbly clay loam, very cobbly loam	*GC	*A-2, A-7	0	15-35	35-55	30-50	25-45	20-40	30-45	15-25
	33-43	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9711:												
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9711:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Arson----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9711:												
Huckle, dry-----	0-2	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	3-4	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-85	55-80	30-50	NP-5
	4-8	*Ashy silt loam, gravelly ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-100	75-100	70-90	55-80	30-50	NP-5
	8-19	*Gravelly ashy silt loam, ashy silt loam	*ML, MH, GM	*A-4, A-5	0	0	60-90	55-85	50-80	45-70	30-50	NP-5
	19-28	*Very cobbly silt loam, very gravelly loam, extremely cobbly loam	*GM, GC-GM	*A-4, A-1	0	25-65	40-70	35-65	30-60	25-50	15-25	NP-5
	28-38	*Extremely cobbly silt loam, very gravelly silt loam, very cobbly fine sandy loam, extremely cobbly loam	*GM, GC-GM	*A-2, A-4, A-1	0	10-60	35-65	30-60	20-55	15-45	15-25	NP-5
	38-47	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam, extremely cobbly fine sandy loam	*GM, GW-GM, GC-GM	*A-1, A-2	0-15	20-65	35-65	30-60	20-55	10-30	15-25	NP-5
	47-57	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tekoa-----------	0-7	*Gravelly ashy silt loam	*GC-GM, GM, ML	*A-4	0	0	55-75	50-70	45-65	40-60	20-35	NP-10
	7-13	*Very cobbly silt loam, gravelly silt loam	*CL, ML, GC-GM	*A-4	0	10-30	65-80	60-75	55-70	40-65	20-35	5-10
	13-17	*Very cobbly silt loam, very gravelly silt loam	*GM, GC-GM, GC	*A-4, A-2, A-6	0	15-45	45-65	40-60	35-55	30-50	25-40	5-15
	17-27	*Very cobbly silty clay loam, extremely gravelly loam, very cobbly clay loam	*GC	*A-6, A-2	0	20-40	45-55	40-50	35-45	30-40	30-40	10-20
	27-33	*Very gravelly silty clay loam, extremely cobbly clay loam, very cobbly loam	*GC	*A-2, A-7	0	15-35	35-55	30-50	25-45	20-40	30-45	15-25
	33-43	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9712:												
McCrosket-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-12	*Gravelly ashy silt loam	*GC-GM, GM, CL	*A-4, A-2	0	0-25	55-75	50-70	45-65	35-55	15-25	NP-10
	12-32	*Very cobbly silt loam, very cobbly loam, very gravelly loam	*GC, GC-GM	*A-2, A-6	0	20-50	45-60	40-55	35-50	30-45	15-30	5-15
	32-42	*Extremely cobbly loam, very stony silt loam, extremely gravelly loam	*CL-ML, CL, GM	*A-4, A-1	0-15	30-60	30-80	25-75	25-65	20-60	15-25	NP-10
	42-52	*Bedrock	---	---	---	---	---	---	---	---	---	---
Tekoa-----------	0-7	*Gravelly ashy silt loam	*GC-GM, GM, ML	*A-4	0	0	55-75	50-70	45-65	40-60	20-35	NP-10
	7-13	*Very cobbly silt loam, gravelly silt loam	*CL, ML, GC-GM	*A-4	0	10-30	65-80	60-75	55-70	40-65	20-35	5-10
	13-17	*Very cobbly silt loam, very gravelly silt loam	*GM, GC-GM, GC	*A-4, A-2, A-6	0	15-45	45-65	40-60	35-55	30-50	25-40	5-15
	17-27	*Very cobbly silty clay loam, extremely gravelly loam, very cobbly clay loam	*GC	*A-6, A-2	0	20-40	45-55	40-50	35-45	30-40	30-40	10-20
	27-33	*Very gravelly silty clay loam, extremely cobbly clay loam, very cobbly loam	*GC	*A-2, A-7	0	15-35	35-55	30-50	25-45	20-40	30-45	15-25
	33-43	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9712:												
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9712:												
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rasser----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	60-100	55-100	50-90	45-85	20-30	NP-10
	4-11	*Ashy silt loam, gravelly ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	55-100	50-100	45-90	40-85	20-30	NP-10
	11-20	*Very cobbly silt loam, very gravelly loam, gravelly silt loam	*CL, GC-GM	*A-4, A-6, A-1	0	0-45	40-75	35-70	30-65	25-60	25-35	5-15
	20-41	*Very gravelly silty clay loam, very cobbly silt loam, extremely cobbly clay loam	*GC	*A-2, A-6	0	5-45	40-60	35-55	30-50	25-45	30-40	10-20
	41-60	*Very cobbly silty clay loam, extremely gravelly silt loam, extremely cobbly loam	*SC, GC	*A-6, A-7, A-2	0	30-55	30-70	25-65	20-60	20-50	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9735:												
Lotuspoint, stony surface--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Stony ashy silt loam	*GM	*A-4, A-2, A-5	0-20	0-20	50-65	45-65	40-60	35-50	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	34-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9735:												
Pinecreek-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*GM, MH	*A-4, A-2, A-5	0	0	45-65	40-65	40-60	35-55	35-50	NP-5
	6-12	*Gravelly ashy silt loam	*GM, ML	*A-4, A-2	0	0	45-65	40-60	40-55	35-55	30-40	NP-5
	12-19	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0-18	40-65	40-60	35-55	30-50	30-40	NP-5
	19-24	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-18	40-65	40-60	35-55	30-50	25-40	NP-5
	24-30	*Very gravelly loam, extremely gravelly loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0	0-35	30-50	25-45	20-40	15-30	15-25	NP-5
	30-70	*Extremely cobbly loam, extremely flaggy loam, extremely gravelly sandy loam	*GM, GP-GM, GC-GM	*A-1	0-32	13-53	15-40	10-40	10-35	5-25	15-25	NP-5
Ardenvoir-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	65-75	60-70	55-65	45-60	20-30	NP-10
	6-11	*Gravelly ashy silt loam, gravelly ashy loam	*GM, GC	*A-4, A-2	0	0	65-75	60-70	50-65	35-50	20-30	NP-10
	11-19	*Gravelly loam, very cobbly loam, very gravelly silt loam, gravelly silt loam	*GM, GC	*A-4, A-2	0	0-30	55-75	50-70	40-65	30-50	15-20	NP-10
	19-39	*Very cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0-30	20-60	45-65	40-60	35-55	25-35	15-20	NP-5
	39-48	*Extremely cobbly loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0-20	20-60	35-45	30-40	20-35	15-30	15-20	NP-5
	48-58	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9735:												
Rasser----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	60-100	55-100	50-90	45-85	20-30	NP-10
	4-11	*Ashy silt loam, gravelly ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	55-100	50-100	45-90	40-85	20-30	NP-10
	11-20	*Very cobbly silt loam, very gravelly loam, gravelly silt loam	*CL, GC-GM	*A-4, A-6, A-1	0	0-45	40-75	35-70	30-65	25-60	25-35	5-15
	20-41	*Very gravelly silty clay loam, very cobbly silt loam, extremely cobbly clay loam	*GC	*A-2, A-6	0	5-45	40-60	35-55	30-50	25-45	30-40	10-20
	41-60	*Very cobbly silty clay loam, extremely gravelly silt loam, extremely cobbly loam	*SC, GC	*A-6, A-7, A-2	0	30-55	30-70	25-65	20-60	20-50	30-45	10-25
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
9770:												
Pinecreek-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-6	*Gravelly ashy silt loam	*GM, MH	*A-4, A-2, A-5	0	0	60-95	55-90	55-90	55-85	50-80	NP-5
	6-12	*Gravelly ashy silt loam	*GM, ML	*A-4, A-2	0	0	60-95	55-90	55-90	55-85	50-80	NP-5
	12-19	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0-10	60-95	55-90	55-90	55-85	50-80	NP-5
	19-24	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-10	60-95	55-90	55-90	55-85	50-80	NP-5
	24-30	*Very gravelly loam, extremely gravelly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0	0-35	30-50	25-45	20-40	15-30	15-25	NP-5
	30-70	*Extremely cobbly loam, extremely flaggy silt loam, extremely gravelly sandy loam	*GM, GP-GM, GC-GM	*A-1	0-30	15-55	15-40	10-40	10-35	5-25	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9770:												
Ahrs----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-6	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-25	45-55	40-50	35-45	30-40	30-40	NP-5
	6-14	*Very gravelly ashy silt loam, cobbly ashy silt loam, gravelly ashy silt loam	*GM	*A-2, A-1	0	0-25	40-50	35-45	30-45	25-35	30-40	NP-5
	14-23	*Very gravelly ashy silt loam, very cobbly ashy silt loam, extremely gravelly ashy silt loam	*GM	*A-1, A-2	0	0-50	35-45	30-40	25-35	20-30	25-35	NP-5
	23-30	*Very cobbly loam, very cobbly silt loam, extremely gravelly silt loam	*GM, GC-GM	*A-1, A-2	0	10-60	35-45	30-40	25-35	20-30	0-20	NP-5
	30-41	*Extremely cobbly loam, extremely gravelly loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0	35-70	35-45	30-40	25-35	20-30	0-20	NP-5
	41-51	*Extremely cobbly silt loam, extremely cobbly loam	*GM, GC-GM	*A-1, A-2	0	55-80	35-45	30-40	25-35	20-30	0-20	NP-5
	51-59	*Extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0	45-70	35-45	30-40	25-35	20-30	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9770:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-59	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rasser----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-4	*Ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	60-100	55-100	50-90	45-85	20-30	NP-10
	4-11	*Ashy silt loam, gravelly ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	55-100	50-100	45-90	40-85	20-30	NP-10
	11-20	*Very cobbly silt loam, very gravelly loam, gravelly silt loam	*CL, GC-GM	*A-4, A-6, A-1	0	0-45	40-75	35-70	30-65	25-60	25-35	5-15
	20-41	*Very gravelly silty clay loam, very cobbly silt loam, extremely cobbly clay loam	*GC	*A-2, A-6	0	5-45	40-60	35-55	30-50	25-45	30-40	10-20
	41-59	*Very cobbly silty clay loam, extremely gravelly silt loam, extremely cobbly loam	*SC, GC	*A-6, A-7, A-2	0	30-55	30-70	25-65	20-60	20-50	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9770:												
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-7	*Very gravelly ashy silt loam	*GC-GM, GM	*A-1, A-2	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-35	15-35	10-35	5-25	15-30	NP-10
	14-59	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-59	*Bedrock	---	---	---	---	---	---	---	---	---	---
9775:												
Pinecreek, moist	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-6	*Gravelly ashy silt loam	*GM, MH	*A-4, A-2, A-5	0	0	60-95	55-90	55-85	50-80	35-50	NP-5
	6-12	*Gravelly ashy silt loam	*GM, ML	*A-4, A-2	0	0	60-95	55-90	55-85	50-80	30-40	NP-5
	12-19	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0-10	60-95	55-90	55-85	50-80	30-40	NP-5
	19-24	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-10	60-95	55-90	55-85	50-80	25-40	NP-5
	24-30	*Very gravelly loam, extremely gravelly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0	0-35	30-50	25-45	20-40	15-30	15-25	NP-5
	30-70	*Extremely cobbly loam, extremely flaggy silt loam, extremely gravelly sandy loam	*GM, GP-GM, GC-GM	*A-1	0-30	15-55	15-40	10-40	10-35	5-25	15-25	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9775:												
Ahrs----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-6	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-25	45-55	40-50	35-45	30-40	30-40	NP-5
	6-14	*Very gravelly ashy silt loam, cobbly ashy silt loam, gravelly ashy silt loam	*GM	*A-2, A-1	0	0-25	40-50	35-45	30-45	25-35	30-40	NP-5
	14-23	*Very gravelly ashy silt loam, very cobbly ashy silt loam, extremely gravelly ashy silt loam	*GM	*A-1, A-2	0	0-50	35-45	30-40	25-35	20-30	25-35	NP-5
	23-30	*Very cobbly loam, very cobbly silt loam, extremely gravelly silt loam	*GM, GC-GM	*A-1, A-2	0	10-60	35-45	30-40	25-35	20-30	0-20	NP-5
	30-41	*Extremely cobbly loam, extremely gravelly loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0	35-70	35-45	30-40	25-35	20-30	0-20	NP-5
	41-51	*Extremely cobbly silt loam, extremely cobbly loam	*GM, GC-GM	*A-1, A-2	0	55-80	35-45	30-40	25-35	20-30	0-20	NP-5
	51-59	*Extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-2	0	45-70	35-45	30-40	25-35	20-30	0-20	NP-5

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9775:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-59	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rasser----------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-4	*Ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	60-100	55-100	50-90	45-85	20-30	NP-10
	4-11	*Ashy silt loam, gravelly ashy silt loam	*CL-ML, GM, CL	*A-4	0	0	55-100	50-100	45-90	40-85	20-30	NP-10
	11-20	*Very cobbly silt loam, very gravelly loam, gravelly silt loam	*CL, GC-GM	*A-4, A-6, A-1	0	0-45	40-75	35-70	30-65	25-60	25-35	5-15
	20-41	*Very gravelly silty clay loam, very cobbly silt loam, extremely cobbly clay loam	*GC	*A-2, A-6	0	5-45	40-60	35-55	30-50	25-45	30-40	10-20
	41-59	*Very cobbly silty clay loam, extremely gravelly silt loam, extremely cobbly loam	*SC, GC	*A-6, A-7, A-2	0	30-55	30-70	25-65	20-60	20-50	30-45	10-25

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9775:												
Honeyjones, warm	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	---	---	---	---	---	---
	2-3	*Ashy silt loam	*ML, MH	*A-4, A-5	0	0	75-90	70-85	65-80	50-75	30-50	NP-5
	3-7	*Ashy silt loam	*ML, MH	*A-4, A-5	0	0	70-90	65-85	65-80	50-75	30-50	NP-5
	7-19	*Ashy silt loam, gravelly ashy silt loam	*ML, MH, GM	*A-4, A-5	0	0-30	60-90	55-85	50-80	45-70	30-50	NP-5
	19-24	*Very gravelly silt loam, extremely gravelly silt loam, extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	0	0-50	40-60	35-55	30-45	25-35	15-25	NP-5
	24-35	*Extremely gravelly loam, extremely gravelly silt loam, extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1, A-2	0	10-60	30-45	25-40	20-35	10-30	15-25	NP-5
	35-47	*Extremely cobbly loam, extremely stony silt loam, extremely gravelly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1, A-2	0-60	10-60	25-45	20-40	15-35	10-30	15-25	NP-5
	47-59	*Extremely stony silt loam, extremely stony loam, extremely cobbly loam, extremely cobbly silt loam	*GM, GC-GM, GP-GM	*A-1, A-2	0-60	10-60	25-45	20-40	15-35	10-30	15-25	NP-5
Rock outcrop----	0-59	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9776:												
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-40	10-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lotuspoint, stony surface--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Stony ashy silt loam	*GM	*A-4, A-2, A-5	0-20	0-20	50-65	45-65	40-60	35-50	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9776:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
9778:												
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-40	10-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9778:												
Lotuspoint------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Gravelly ashy silt loam	*GM, MH	*A-2, A-5	0	0-10	50-70	45-65	40-60	35-55	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9778:												
Pinecreek-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-6	*Gravelly ashy silt loam	*GM, MH	*A-4, A-2, A-5	0	0	60-95	55-90	55-85	50-80	35-50	NP-5
	6-12	*Gravelly ashy silt loam	*GM, ML	*A-4, A-2	0	0	60-95	55-90	55-85	50-80	30-40	NP-5
	12-19	*Gravelly ashy silt loam	*GM	*A-4, A-2	0	0-10	60-95	55-90	55-85	50-80	30-40	NP-5
	19-24	*Gravelly ashy silt loam	*GM	*A-2, A-4	0	0-10	60-95	55-90	55-85	50-80	25-40	NP-5
	24-30	*Very gravelly loam, extremely gravelly loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0	0-35	30-50	25-45	20-40	15-30	15-25	NP-5
	30-70	*Extremely cobbly loam, extremely flaggy loam, extremely gravelly sandy loam	*GM, GP-GM, GC-GM	*A-1	0-30	15-55	15-40	10-40	10-35	5-25	15-25	NP-5
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
9782:												
Ardenvoir, dry--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-3	*Gravelly ashy silt loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	3-11	*Gravelly ashy silt loam, gravelly ashy loam	*ML, CL, GM	*A-4	0	0	60-75	50-70	45-65	40-60	20-30	NP-10
	11-18	*Very gravelly loam, very gravelly silt loam	*GM, GC	*A-2, A-1, A-4	0	10-40	45-65	40-60	35-55	25-40	20-30	NP-10
	18-32	*Extremely gravelly loam, very cobbly silt loam	*GM, GC	*A-2, A-1, A-4	0	25-55	45-65	40-60	30-50	25-40	15-20	NP-10
	32-41	*Extremely cobbly loam, extremely cobbly silt loam, very cobbly loam	*GM, GC-GM	*A-1, A-2	0-15	25-60	35-55	30-50	25-35	20-30	15-20	NP-5
	41-60	*Extremely stony loam, extremely cobbly sandy loam, extremely cobbly silt loam	*GM, GC-GM	*A-1	0-50	25-55	30-50	25-45	25-35	15-25	15-20	NP-5
	60-70	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9782:												
Cassyhill-------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	90-100	85-95	---	---
	1-7	*Very gravelly ashy silt loam	*GM	*A-1, A-2	0	0-10	45-75	40-70	25-45	20-35	20-35	NP-5
	7-11	*Very gravelly ashy loam, extremely cobbly ashy silt loam, very gravelly ashy silt loam	*GM	*A-1, A-2	0-15	0-40	35-55	30-50	20-45	15-35	20-35	NP-5
	11-14	*Extremely channery loam, extremely flaggy loam, extremely channery silt loam	*GP-GC, GC, GP-GM	*A-1, A-2	0-65	30-55	15-40	10-35	10-35	5-25	15-30	NP-10
	14-24	*Bedrock	---	---	---	---	---	---	---	---	---	---
Lotuspoint, stony surface--	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-4	*Stony ashy silt loam	*GM	*A-4, A-2, A-5	0-20	0-20	50-65	45-65	40-60	35-50	30-50	NP-5
	4-10	*Stony ashy silt loam, very cobbly ashy silt loam	*GM	*A-4, A-5, A-1	0-40	0-30	40-65	35-65	30-60	25-50	30-50	NP-5
	10-16	*Extremely stony silt loam, very cobbly silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-1, A-4	10-60	30-45	30-55	25-50	20-45	15-40	15-20	NP-5
	16-26	*Extremely stony loam, extremely stony silt loam, extremely cobbly silt loam	*GM, GC-GM	*A-2, A-1	5-55	30-50	30-55	25-50	20-40	15-35	15-20	NP-5
	26-36	*Bedrock	---	---	---	---	---	---	---	---	---	---

Table 12.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
9782:												
Arson, dry------	0-1	*Slightly decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	1-2	*Moderately decomposed plant material	*PT	*A-8	0	0	100	100	60-100	50-90	---	---
	2-5	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	90-100	85-95	20-35	NP-10
	5-9	*Ashy silt loam	*CL-ML, ML	*A-4	0	0	95-100	90-100	85-100	80-95	20-35	NP-10
	9-15	*Silt loam	*CL, CL-ML	*A-4, A-6	0	0	95-100	90-100	80-90	75-85	20-35	5-15
	15-38	*Silt loam	*CL, CL-ML	*A-6, A-4	0	0	90-100	85-100	75-85	70-80	25-35	5-15
	38-43	*Very gravelly silt loam, gravelly silt loam, extremely gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	45-60	35-55	30-50	25-45	25-35	5-15
	43-57	*Very gravelly silt loam, extremely gravelly silt loam, very gravelly loam	*GC, GC-GM	*A-2, A-1, A-6	0	0-15	35-55	30-50	25-45	20-40	25-35	5-15
	57-67	*Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	*Bedrock	---	---	---	---	---	---	---	---	---	---
W:												
Water.												

Table 13.--Physical Soil Properties

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1001:														
Bridgeson----------	0-12	10-25	50-70	18-27	0.90-1.10	0.6-2	0.21-0.23	3.0-5.9	6.0-10	.32	.32	5	4	86
	12-20	10-40	33-70	18-27	1.20-1.40	0.6-2	0.16-0.21	3.0-5.9	1.0-3.0	.49	.49			
	20-31	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.5-1.0	.37	.37			
	31-40	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.3-0.8	.37	.37			
	40-60	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.0-0.5	.32	.32			
Hoodoo----------	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
Wolfeson----------	0-9	55-70	15-40	5-15	1.20-1.40	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.49	.49	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			
Pywell----------	0-6	10-20	50-70	10-35	0.30-0.50	0.6-2	0.30-0.60	---	30-50	---	---	2	2	134
	6-14	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	30-50	---	---			
	14-27	10-20	50-70	10-35	0.40-0.60	0.6-2	0.30-0.60	---	25-35	---	---			
	27-31	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	31-45	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	45-60	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
Endoaquolls---------	0-5	40-50	30-53	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	5	5	56
	5-11	20-65	15-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	10-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	10-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	10-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.43	.43			
	45-60	55-85	5-45	0-10	1.30-1.60	2-20	0.03-0.15	0.0-2.9	0.0-0.5	.37	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1010:														
Caldwell----------	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Thatuna----------	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Cald----------	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Latah----------	0-10	8-12	66-75	14-22	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.43	.43	4	5	56
	10-14	8-12	66-75	14-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	8-12	70-80	12-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.64	.64			
	19-22	8-12	76-80	8-12	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.64	.64			
	22-31	6-8	52-60	35-40	1.30-1.50	0.00-0.06	0.15-0.19	3.0-5.9	0.3-1.0	.43	.43			
	31-38	5-8	50-60	35-45	1.30-1.50	0.00-0.06	0.15-0.19	6.0-8.9	0.3-0.8	.43	.43			
	38-60	5-8	50-65	30-45	1.30-1.50	0.06-0.2	0.15-0.19	6.0-8.9	0.3-0.5	.43	.43			
Mondovi----------	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1010:														
Endoaquolls	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
1015:														
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Endoaquolls	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
Mondovi	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1020:														
Cocolalla----------	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Hardesty----------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Northstar----------	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rockly----------	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Saltese----------	0-5	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	2	2	134
	5-12	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	12-16	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	16-24	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	24-40	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	40-60	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
Water----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1021:														
Cocolalla----------	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	1.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	1.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	1.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1021:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	1.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	1.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Saltese	0-5	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	2	2	134
	5-12	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	12-16	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	16-24	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	24-40	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	40-60	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	1.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1030:														
Emdent	0-6	5-25	57-85	10-18	0.75-0.95	0.6-2	0.21-0.23	0.0-2.9	3.0-6.0	.32	.32	5	4	86
	6-9	10-30	55-85	5-15	0.80-1.00	0.6-2	0.21-0.23	0.0-2.9	2.0-5.0	.49	.49			
	9-13	10-50	35-85	5-15	0.90-1.10	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.55	.55			
	13-21	2-65	35-98	0-8	0.95-1.15	0.6-2	0.17-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-28	2-65	35-98	0-8	0.95-1.15	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	28-60	2-65	35-98	0-4	0.95-1.15	0.6-2	0.17-0.23	0.0-2.9	0.0-0.3	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1030:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Saltese	0-5	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	2	2	134
	5-12	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	12-16	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	16-24	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	24-40	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	40-60	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
1040:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1040:														
Peone	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
1050:														
Hoodoo	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
Kronquist	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1050:														
Pywell	0-6	10-20	50-70	10-35	0.30-0.50	0.6-2	0.30-0.60	---	30-50	---	---	2	2	134
	6-14	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	30-50	---	---			
	14-27	10-20	50-70	10-35	0.40-0.60	0.6-2	0.30-0.60	---	25-35	---	---			
	27-31	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	31-45	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	45-60	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
1070:														
Mondovi	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Endoaquolls	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1080:														
Narcisse----------	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
Hardesty----------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Kronquist----------	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
1081:														
Narcisse----------	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	1.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	1.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	1.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	1.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	1.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	1.0-2.9	0.5-1.0	.32	.32			
Hardesty----------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
Kronquist----------	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	1.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1081:														
Opportunity---------	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	1.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			
1090:														
Peone---------------	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			
Saltese-------------	0-5	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	2	2	134
	5-12	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	12-16	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	16-24	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	24-40	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	40-60	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
Endoaquolls---------	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
Kronquist-----------	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
Peone, drained------	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			
Water---------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1091:														
Peone, drained------	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			
Hardesty------------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Kronquist-----------	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
Cedonia-------------	0-6	5-25	51-80	14-24	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49	5	4	86
	6-12	5-25	55-75	14-26	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49			
	12-27	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	27-33	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	33-60	5-15	50-80	14-35	1.35-1.50	0.2-0.6	0.16-0.19	0.0-5.9	0.0-0.5	.55	.55			
Endoaquolls---------	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
1092:														
Hoodoo--------------	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	1.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	1.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	1.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	1.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	1.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	1.0-2.9	0.1-0.3	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1092:														
Bellslake	0-6	15-25	63-75	8-12	0.65-0.85	0.6-2	0.21-0.23	1.0-2.9	10-14	.37	.37	5	4	86
	6-10	15-70	20-75	8-12	0.70-0.90	0.6-2	0.18-0.23	1.0-2.9	8.0-12	.43	.43			
	10-18	15-70	20-75	8-12	0.70-0.90	0.6-2	0.18-0.23	1.0-2.9	8.0-12	.43	.43			
	18-30	15-30	58-77	8-12	0.70-0.90	0.6-2	0.19-0.21	1.0-2.9	10-14	.43	.43			
	30-48	10-20	50-70	10-35	0.15-0.35	0.6-2	0.30-0.60	---	20-40	---	---			
	48-55	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	30-50	---	---			
	55-65	10-20	50-70	10-35	0.05-0.25	0.6-2	0.30-0.60	---	35-65	---	---			
Kronquist	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	1.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
Pywell	0-6	10-20	50-70	10-35	0.30-0.50	0.6-2	0.30-0.60	---	30-50	---	---	2	2	134
	6-14	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	30-50	---	---			
	14-27	10-20	50-70	10-35	0.40-0.60	0.6-2	0.30-0.60	---	25-35	---	---			
	27-31	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	31-45	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	45-60	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1120:														
Lovell	0-2	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	2-8	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.3-3.0	.43	.43			
	8-19	5-25	50-80	15-25	1.20-1.40	0.6-2	0.21-0.23	3.0-5.9	1.0-1.8	.49	.49			
	19-24	5-25	50-80	15-25	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	24-30	5-20	50-75	18-30	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	30-42	5-20	50-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.8	.43	.43			
	42-52	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	52-61	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1120:														
Santa	0-1	---	---	10-14	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-5	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	5-9	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	1.0-3.0	.49	.49			
	9-16	8-12	70-75	14-18	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.64	.64			
	16-25	4-8	74-78	14-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.64	.64			
	25-27	4-8	78-85	8-14	1.30-1.50	0.6-2	0.16-0.21	0.0-2.9	0.5-0.8	.64	.64			
	27-39	4-8	62-70	22-30	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.8	.55	.55			
	39-65	4-8	60-65	27-35	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.5	.49	.49			
Freeman	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Kronquist	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
1130:														
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Hoodoo	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1130:														
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Wolfeson	0-9	55-70	15-40	5-15	1.20-1.40	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.49	.49	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			
1200:														
Endoaquolls	0-5	40-50	30-53	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	5	5	56
	5-11	20-65	15-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	10-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	10-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	10-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.43	.43			
	45-60	55-85	5-45	0-10	1.30-1.60	2-20	0.03-0.15	0.0-2.9	0.0-0.5	.37	.37			
Fluvaquents	0-1	55-65	20-30	5-15	1.20-1.50	2-6	0.10-0.13	0.0-2.9	0.5-1.5	.24	.24	5	3	86
	1-4	45-100	0-40	0-15	1.30-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.02	.02			
	4-12	55-100	10-45	0-15	1.20-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.37	.37			
	12-21	55-100	10-45	0-15	1.20-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.24	.24			
	21-31	55-100	10-45	0-15	1.20-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.37	.37			
	31-40	60-100	0-25	0-15	1.30-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.24	.24			
	40-60	60-100	0-25	0-15	1.30-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.15	.15			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Saltese	0-5	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	2	2	134
	5-12	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	12-16	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	16-24	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	24-40	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	40-60	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1203:														
Haploxerolls, channeled	0-4	20-30	50-70	10-20	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	3.0-7.0	.37	.37	5	4	86
	4-14	20-55	35-65	10-20	0.80-1.20	0.6-2	0.14-0.23	0.0-2.9	2.0-6.0	.43	.43			
	14-30	20-60	35-65	5-18	1.00-1.40	0.6-6	0.08-0.23	0.0-2.9	2.0-6.0	.37	.37			
	30-40	25-60	22-65	5-18	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	1.0-3.0	.49	.49			
	40-57	30-60	22-65	3-18	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	1.0-3.0	.49	.49			
	57-60	50-70	25-40	3-18	1.10-1.50	0.6-6	0.07-0.18	0.0-2.9	0.5-2.5	.43	.43			
Mondovi	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			
Endoaquolls	0-5	40-50	30-53	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	5	5	56
	5-11	20-65	15-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	10-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	10-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	10-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.43	.43			
	45-60	55-85	5-45	0-10	1.30-1.60	2-20	0.03-0.15	0.0-2.9	0.0-0.5	.37	.37			
Riverwash	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1300:														
Aquepts, frigid	0-4	45-50	40-45	8-12	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	3.0-4.0	.37	.37	3	4	86
	4-12	45-65	25-45	8-12	1.10-1.30	0.6-2	0.12-0.20	0.0-2.9	3.0-4.0	.37	.37			
	12-17	45-65	25-45	8-12	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.43	.43			
	17-27	45-70	20-45	8-12	1.20-1.40	0.6-2	0.10-0.18	0.0-2.9	0.8-1.3	.32	.32			
	27-40	75-95	0-20	0-5	1.55-1.75	6-100	0.02-0.08	0.0-2.9	0.8-1.3	.24	.24			
	40-50	80-95	0-20	0-5	1.45-1.65	6-100	0.02-0.08	0.0-2.9	0.8-1.3	.02	.05			
	50-60	80-95	0-20	0-5	1.45-1.65	6-100	0.02-0.08	0.0-2.9	0.8-1.3	.02	.02			
Lovell	0-2	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	2-8	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.3-3.0	.43	.43			
	8-19	5-25	50-80	15-25	1.20-1.40	0.6-2	0.21-0.23	3.0-5.9	1.0-1.8	.49	.49			
	19-24	5-25	50-80	15-25	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	24-30	5-20	50-75	18-30	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	30-42	5-20	50-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.8	.43	.43			
	42-52	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	52-61	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
1300:														
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Freeman	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
Kronquist	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
Pywell	0-6	10-20	50-70	10-35	0.30-0.50	0.6-2	0.30-0.60	---	30-50	---	---	2	2	134
	6-14	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	30-50	---	---			
	14-27	10-20	50-70	10-35	0.40-0.60	0.6-2	0.30-0.60	---	25-35	---	---			
	27-31	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	31-45	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	45-60	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2040:														
Klickson, mass wasted	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Blinn, stony surface	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	30-60	---	---			
	2-6	20-40	50-65	8-15	1.00-1.20	0.6-2	0.18-0.20	0.0-2.9	2.0-5.0	.32	.32			
	6-12	20-40	50-60	10-20	1.00-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.43			
	12-24	30-45	35-55	12-20	1.40-1.55	0.6-2	0.12-0.14	0.0-2.9	0.5-1.5	.20	.43			
	24-39	35-50	35-50	10-20	1.40-1.55	0.6-2	0.06-0.09	0.0-2.9	0.3-0.8	.15	.49			
	39-49	---	---	---	---	---	---	---	---	---	---			
Green Bluff	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Xerolls, frigid, mass wasted	0-4	10-30	55-70	10-27	1.05-1.25	0.6-2	0.20-0.22	0.0-5.9	3.0-5.0	.37	.37	2	6	48
	4-9	10-45	40-70	10-27	1.00-1.40	0.6-2	0.16-0.22	0.0-5.9	2.0-4.0	.37	.37			
	9-16	10-65	15-65	18-40	1.20-1.40	0.2-0.6	0.12-0.20	3.0-5.9	1.0-2.0	.43	.43			
	16-24	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.5	.24	.24			
	24-60	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.3	.24	.24			
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	0.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	0.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	0.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	0.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2040:														
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
2041:														
Klickson	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	0.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	0.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	0.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	0.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Blinn, stony surface	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	30-60	---	---			
	2-6	20-40	50-65	8-15	1.00-1.20	0.6-2	0.18-0.20	0.0-2.9	2.0-5.0	.32	.32			
	6-12	20-40	50-60	10-20	1.00-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.43			
	12-24	30-45	35-55	12-20	1.40-1.55	0.6-2	0.12-0.14	0.0-2.9	0.5-1.5	.20	.43			
	24-39	35-50	35-50	10-20	1.40-1.55	0.6-2	0.06-0.09	0.0-2.9	0.3-0.8	.15	.49			
	39-49	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Xerolls, frigid, mass wasted	0-4	10-30	55-70	10-27	1.05-1.25	0.6-2	0.20-0.22	0.0-5.9	3.0-5.0	.37	.37	2	6	48
	4-9	10-45	40-70	10-27	1.00-1.40	0.6-2	0.16-0.22	0.0-5.9	2.0-4.0	.37	.37			
	9-16	10-65	15-65	18-40	1.20-1.40	0.2-0.6	0.12-0.20	3.0-5.9	1.0-2.0	.43	.43			
	16-24	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.5	.24	.24			
	24-60	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.3	.24	.24			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2042:														
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Klickson	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	0.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	0.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	0.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	0.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
2043:														
Klickson, mass wasted	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	1.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	1.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	1.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	1.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.1-0.3	.05	.43			
Speigle, mass wasted	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2043:														
Green Bluff---------	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	1.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	1.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	1.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	1.0-2.9	0.0-0.3	.37	.37			
Klickson-----------	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	1.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	1.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	1.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	1.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.1-0.3	.05	.43			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Spens---------------	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Xerolls, frigid, mass wasted--------	0-4	10-30	55-70	10-27	1.05-1.25	0.6-2	0.20-0.22	1.0-5.9	3.0-5.0	.37	.37	2	6	48
	4-9	10-45	40-70	10-27	1.00-1.40	0.6-2	0.16-0.22	1.0-5.9	2.0-4.0	.37	.37			
	9-16	10-65	15-65	18-40	1.20-1.40	0.2-0.6	0.12-0.20	3.0-5.9	1.0-2.0	.43	.43			
	16-24	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	1.0-2.9	0.0-0.5	.24	.24			
	24-60	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	1.0-2.9	0.0-0.3	.24	.24			
Fan Lake-----------	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	1.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	1.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	1.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	1.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	1.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	1.0-2.9	0.1-0.3	.32	.32			
Lacy----------------	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2044:														
Klickson	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	1.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	1.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	1.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	1.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.1-0.3	.05	.43			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Green Bluff	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	1.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	1.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	1.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	1.0-2.9	0.0-0.3	.37	.37			
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
2045:														
Marble, mass wasted	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	1.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	1.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	1.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2045:														
Speigle, mass wasted	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	1.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	1.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	1.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Klickson, mass wasted	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	1.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	1.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	1.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	1.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.1-0.3	.05	.43			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
2046:														
Klickson	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	1.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	1.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	1.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	1.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.1-0.3	.05	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2046:														
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
2050:														
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	1.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	1.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	1.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	1.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2050:														
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
2051:														
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	1.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	1.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	1.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	1.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2052:														
Brincken, moist, mass wasted	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	1.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	1.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	1.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	1.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Speigle, mass wasted	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Gibbs	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-5	10-20	62-72	12-18	1.15-1.25	0.6-2	0.19-0.21	1.0-3.0	2.0-4.0	.49	.49			
	5-13	15-35	45-69	16-22	1.15-1.35	0.6-2	0.16-0.21	1.0-3.0	1.5-2.5	.49	.49			
	13-20	15-35	35-65	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.8-1.5	.43	.43			
	20-31	15-35	35-60	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.5-1.0	.43	.43			
	31-35	15-35	40-60	20-30	1.45-1.55	0.2-1	0.09-0.12	1.0-3.0	0.3-0.8	.15	.49			
	35-45	---	---	---	---	---	---	---	---	---	---			
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	1.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	1.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	1.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Klickson, mass wasted	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	1.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	1.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	1.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	1.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.1-0.3	.05	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2052:														
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	1.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	1.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	1.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	1.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	1.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	1.0-2.9	0.5-1.0	.32	.32			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
2053:														
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	1.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	1.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	1.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	1.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	1.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2053:														
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
2054:														
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Klickson	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	1.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	1.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	1.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	1.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	1.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.1-0.3	.05	.43			
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
2070:														
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	0.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	0.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	0.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	0.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2070:														
Lacy----------	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	0.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	0.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	0.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	0.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Gibbs----------	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-5	10-20	62-72	12-18	1.15-1.25	0.6-2	0.19-0.21	0.0-3.0	2.0-4.0	.49	.49			
	5-13	15-35	45-69	16-22	1.15-1.35	0.6-2	0.16-0.21	0.0-3.0	1.5-2.5	.49	.49			
	13-20	15-35	35-65	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.8-1.5	.43	.43			
	20-31	15-35	35-60	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.5-1.0	.43	.43			
	31-35	15-35	40-60	20-30	1.45-1.55	0.2-1	0.09-0.12	0.0-3.0	0.3-0.8	.15	.49			
	35-45	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Hardesty----------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Lakespring----------	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Stutler----------	0-1	---	---	8-20	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	5	56
	1-5	20-40	40-70	8-20	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	2.0-3.0	.28	.49			
	5-12	20-45	40-70	7-18	1.15-1.35	0.6-2	0.17-0.18	0.0-2.9	1.0-2.0	.24	.55			
	12-22	30-75	10-60	4-18	1.25-1.45	0.6-6	0.09-0.11	0.0-2.9	0.5-1.3	.15	.55			
	22-32	35-70	12-47	4-18	1.25-1.45	2-6	0.03-0.04	0.0-2.9	0.3-0.8	.05	.43			
	32-42	40-75	10-45	4-18	1.30-1.50	2-6	0.01-0.02	0.0-2.9	0.3-0.8	.02	.20			
	42-61	80-100	0-20	0-7	1.50-1.60	6-100	0.00-0.01	0.0-2.9	0.0-0.3	.02	.05			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2071:														
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	1.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	1.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	1.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	1.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Gibbs	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-5	10-20	62-72	12-18	1.15-1.25	0.6-2	0.19-0.21	1.0-3.0	2.0-4.0	.49	.49			
	5-13	15-35	45-69	16-22	1.15-1.35	0.6-2	0.16-0.21	1.0-3.0	1.5-2.5	.49	.49			
	13-20	15-35	35-65	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.8-1.5	.43	.43			
	20-31	15-35	35-60	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.5-1.0	.43	.43			
	31-35	15-35	40-60	20-30	1.45-1.55	0.2-1	0.09-0.12	1.0-3.0	0.3-0.8	.15	.49			
	35-45	---	---	---	---	---	---	---	---	---	---			
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	1.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	1.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	1.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	1.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
2080:														
Gibbs	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-5	10-20	62-72	12-18	1.15-1.25	0.6-2	0.19-0.21	0.0-3.0	2.0-4.0	.49	.49			
	5-13	15-35	45-69	16-22	1.15-1.35	0.6-2	0.16-0.21	0.0-3.0	1.5-2.5	.49	.49			
	13-20	15-35	35-65	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.8-1.5	.43	.43			
	20-31	15-35	35-60	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.5-1.0	.43	.43			
	31-35	15-35	40-60	20-30	1.45-1.55	0.2-1	0.09-0.12	0.0-3.0	0.3-0.8	.15	.49			
	35-45	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2080:														
Bobbitt----------	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	0.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	0.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	0.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	0.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			
Driscoll----------	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Lacy----------	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	0.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	0.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	0.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	0.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Caldwell----------	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
2081:														
Gibbs----------	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-5	10-20	62-72	12-18	1.15-1.25	0.6-2	0.19-0.21	0.0-3.0	2.0-4.0	.49	.49			
	5-13	15-35	45-69	16-22	1.15-1.35	0.6-2	0.16-0.21	0.0-3.0	1.5-2.5	.49	.49			
	13-20	15-35	35-65	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.8-1.5	.43	.43			
	20-31	15-35	35-60	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.5-1.0	.43	.43			
	31-35	15-35	40-60	20-30	1.45-1.55	0.2-1	0.09-0.12	0.0-3.0	0.3-0.8	.15	.49			
	35-45	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2081:														
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	0.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	0.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	0.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	0.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			
Brincken, moist	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Lacy	0-2	40-48	35-40	14-22	1.20-1.40	0.6-2	0.11-0.15	0.0-3.0	2.0-4.0	.17	.37	1	6	48
	2-6	35-45	35-40	18-26	1.30-1.50	0.6-2	0.05-0.12	0.0-3.0	1.0-2.0	.05	.37			
	6-10	35-45	35-40	20-30	1.40-1.60	0.6-2	0.04-0.12	0.0-3.0	1.0-2.0	.05	.37			
	10-16	30-40	30-40	20-30	1.50-1.60	0.2-2	0.04-0.07	0.0-3.0	0.5-1.5	.02	.43			
	16-26	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2085:														
Tucannon	0-5	10-20	60-75	10-20	1.10-1.20	0.6-2	0.17-0.22	0.0-2.9	2.0-4.0	.43	.43	2	4	86
	5-10	15-40	35-70	15-25	1.10-1.25	0.6-2	0.15-0.22	0.0-2.9	1.0-3.0	.49	.49			
	10-21	20-40	35-62	18-25	1.25-1.35	0.6-2	0.11-0.19	0.0-2.9	0.3-0.8	.32	.55			
	21-29	20-45	35-62	18-25	1.25-1.40	0.6-2	0.11-0.18	0.0-2.9	0.0-0.5	.32	.55			
	29-39	---	---	---	---	---	---	---	---	---	---			
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Uhlig, dry	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
2090:														
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	1.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	1.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Tucannon	0-5	10-20	60-75	10-20	1.10-1.20	0.6-2	0.17-0.22	1.0-2.9	2.0-4.0	.43	.43	2	4	86
	5-10	15-40	35-70	15-25	1.10-1.25	0.6-2	0.15-0.22	1.0-2.9	1.0-3.0	.49	.49			
	10-21	20-40	35-62	18-25	1.25-1.35	0.6-2	0.11-0.19	1.0-2.9	0.3-0.8	.32	.55			
	21-29	20-45	35-62	18-25	1.25-1.40	0.6-2	0.11-0.18	1.0-2.9	0.0-0.5	.32	.55			
	29-39	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2090:														
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Uhlig, dry	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	1.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	1.0-2.9	0.0-0.2	.55	.55			
2160:														
Scoap	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-7	55-65	25-35	8-12	1.20-1.40	0.6-2	0.07-0.09	1.0-2.9	2.0-4.0	.10	.20			
	7-17	55-65	25-35	8-12	1.20-1.40	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.24			
	17-30	55-65	25-35	8-12	1.40-1.50	0.6-2	0.04-0.06	1.0-2.9	0.5-1.0	.10	.32			
	30-47	55-65	25-35	8-12	1.40-1.50	2-6	0.04-0.06	1.0-2.9	0.3-0.8	.10	.32			
	47-60	65-80	10-25	3-10	1.40-1.50	2-20	0.03-0.06	1.0-2.9	0.0-0.5	.05	.15			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	1.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	1.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	1.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	1.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
2160:														
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	1.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	1.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	1.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	1.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	1.0-2.9	0.0-0.1	.02	.02			
3010:														
Alecanyon, very stony surface	0-7	55-65	25-40	5-10	1.15-1.35	2-6	0.07-0.12	0.0-2.9	2.0-4.0	.15	.24	2	4	86
	7-11	55-65	25-40	5-10	1.15-1.35	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.10	.24			
	11-16	65-80	15-30	2-6	1.45-1.65	6-20	0.01-0.06	0.0-2.9	0.3-0.8	.02	.17			
	16-39	85-95	0-15	0-4	1.50-1.70	20-100	0.01-0.03	0.0-2.9	0.0-0.3	.02	.02			
	39-60	85-95	0-15	0-2	1.50-1.70	20-100	0.01-0.03	0.0-2.9	0.0-0.3	.02	.02			
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3015:														
Seaboldt, dry	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3015:														
Uhlig, dry----------	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Brincken, moist-----	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Narcisse-----------	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3020:														
Bong----------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Marble----------	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Phoebe, dry---------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3020:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Marblespring	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
3022:														
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Phoebe	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Marblespring	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3022:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3024:														
Phoebe	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3025:														
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3025:														
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	1.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	1.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	1.0-2.9	0.0-0.3	.02	.02			
Phoebe	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
3026:														
Phoebe, dry	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Bong	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3026:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3030:														
Bonner	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	2	134
	1-3	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-5	55-65	30-40	4-8	0.70-0.90	2-6	0.20-0.22	1.0-2.9	3.0-5.0	.28	.28			
	5-9	55-65	30-40	4-8	0.75-0.95	2-6	0.20-0.22	1.0-2.9	1.0-3.0	.37	.37			
	9-19	55-65	30-40	4-8	0.80-1.00	2-6	0.15-0.22	1.0-2.9	0.5-1.5	.37	.37			
	19-27	75-85	10-20	0-5	1.45-1.60	6-20	0.03-0.50	1.0-2.9	0.0-0.2	.10	.24			
	27-60	85-95	5-15	0-3	1.45-1.60	20-100	0.01-0.03	1.0-2.9	0.0-0.1	.02	.02			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	1.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	1.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	1.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	1.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	1.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	1.0-2.9	0.0-0.3	.02	.02			
Stien, very stony surface	0-1	---	---	3-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-3	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	2.0-4.0	.49	.49			
	3-8	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	1.0-2.0	.55	.55			
	8-16	30-50	45-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	0.5-1.5	.55	.55			
	16-24	30-50	45-65	3-10	0.70-0.85	0.6-2	0.14-0.16	1.0-2.9	0.3-0.8	.28	.64			
	24-31	50-65	30-40	4-10	1.35-1.55	2-6	0.05-0.09	1.0-2.9	0.3-0.8	.15	.55			
	31-48	75-85	10-20	3-5	1.40-1.60	6-20	0.01-0.06	1.0-2.9	0.0-0.5	.10	.32			
	48-60	85-100	0-12	0-3	1.50-1.70	20-100	0.01-0.02	1.0-2.9	0.0-0.3	.02	.15			
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	1.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	1.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	1.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	1.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	1.0-2.9	0.0-0.1	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3030:														
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	1.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	1.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	1.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	1.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	1.0-2.9	0.0-0.2	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	1.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	1.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	1.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	1.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	1.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	1.0-2.9	0.0-0.5	.10	.10			
3031:														
Bonner	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	2	134
	1-3	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-5	55-65	30-40	4-8	0.70-0.90	2-6	0.20-0.22	0.0-2.9	3.0-5.0	.28	.28			
	5-9	55-65	30-40	4-8	0.75-0.95	2-6	0.20-0.22	0.0-2.9	1.0-3.0	.37	.37			
	9-19	55-65	30-40	4-8	0.80-1.00	2-6	0.15-0.22	0.0-2.9	0.5-1.5	.37	.37			
	19-27	75-85	10-20	0-5	1.45-1.60	6-20	0.03-0.50	0.0-2.9	0.0-0.2	.10	.24			
	27-60	85-95	5-15	0-3	1.45-1.60	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3031:														
Stien, very stony surface	0-1	---	---	3-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-3	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	2.0-4.0	.49	.49			
	3-8	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	1.0-2.0	.55	.55			
	8-16	30-50	45-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	0.5-1.5	.55	.55			
	16-24	30-50	45-65	3-10	0.70-0.85	0.6-2	0.14-0.16	0.0-2.9	0.3-0.8	.28	.64			
	24-31	50-65	30-40	4-10	1.35-1.55	2-6	0.05-0.09	0.0-2.9	0.3-0.8	.15	.55			
	31-48	75-85	10-20	3-5	1.40-1.60	6-20	0.01-0.06	0.0-2.9	0.0-0.5	.10	.32			
	48-60	85-100	0-12	0-3	1.50-1.70	20-100	0.01-0.02	0.0-2.9	0.0-0.3	.02	.15			
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
3039:														
Alecanyon	0-7	55-75	10-40	5-15	1.10-1.30	2-4	0.07-0.11	1.0-2.9	2.0-4.0	.15	.28	2	4	86
	7-11	60-75	10-35	5-15	1.15-1.35	2-4	0.04-0.08	1.0-2.9	1.0-2.0	.05	.24			
	11-16	65-85	5-33	2-10	1.45-1.65	6-20	0.01-0.06	1.0-2.9	0.3-0.8	.02	.15			
	16-39	80-95	0-20	0-4	1.50-1.70	20-100	0.01-0.03	1.0-2.9	0.0-0.3	.02	.02			
	39-60	80-95	0-20	0-2	1.50-1.70	20-100	0.01-0.03	1.0-2.9	0.0-0.3	.02	.02			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	1.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	1.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	1.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			
Deno	0-4	10-30	55-80	10-18	1.10-1.20	0.6-2	0.20-0.22	1.0-2.9	1.0-3.0	.49	.49	3	4	86
	4-14	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	1.0-2.9	1.0-3.0	.49	.49			
	14-28	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	1.0-2.9	1.0-3.0	.49	.49			
	28-40	25-50	35-65	10-18	1.30-1.45	0.6-2	0.15-0.18	1.0-2.9	0.5-2.0	.49	.49			
	40-48	55-75	10-35	4-15	1.35-1.50	2-6	0.11-0.13	1.0-2.9	0.0-0.5	.32	.32			
	48-58	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3039:														
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	1.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	1.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	1.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	1.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	1.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	1.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	1.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	1.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
3040:														
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Alecanyon	0-7	55-75	10-40	5-15	1.10-1.30	2-4	0.07-0.11	0.0-2.9	2.0-4.0	.15	.28	2	4	86
	7-11	60-75	10-35	5-15	1.15-1.35	2-4	0.04-0.08	0.0-2.9	1.0-2.0	.05	.24			
	11-16	65-85	5-33	2-10	1.45-1.65	6-20	0.01-0.06	0.0-2.9	0.3-0.8	.02	.15			
	16-39	80-95	0-20	0-4	1.50-1.70	20-100	0.01-0.03	0.0-2.9	0.0-0.3	.02	.02			
	39-60	80-95	0-20	0-2	1.50-1.70	20-100	0.01-0.03	0.0-2.9	0.0-0.3	.02	.02			
Uhlig, dry	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3040:														
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
3041:														
Alecanyon, very stony surface	0-7	55-65	25-40	5-10	1.15-1.35	2-6	0.07-0.12	0.0-2.9	2.0-4.0	.15	.24	2	4	86
	7-11	55-65	25-40	5-10	1.15-1.35	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.10	.24			
	11-16	65-80	15-30	2-6	1.45-1.65	6-20	0.01-0.06	0.0-2.9	0.3-0.8	.02	.17			
	16-39	85-95	0-15	0-4	1.50-1.70	20-100	0.01-0.03	0.0-2.9	0.0-0.3	.02	.02			
	39-60	85-95	0-15	0-2	1.50-1.70	20-100	0.01-0.03	0.0-2.9	0.0-0.3	.02	.02			
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Uhlig, dry	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3042:														
Alecanyon, very stony surface	0-7	55-65	25-40	5-10	1.15-1.35	2-6	0.07-0.12	1.0-2.9	2.0-4.0	.15	.24	2	4	86
	7-11	55-65	25-40	5-10	1.15-1.35	2-6	0.04-0.08	1.0-2.9	1.0-2.0	.10	.24			
	11-16	65-80	15-30	2-6	1.45-1.65	6-20	0.01-0.06	1.0-2.9	0.3-0.8	.02	.17			
	16-39	85-95	0-15	0-4	1.50-1.70	20-100	0.01-0.03	1.0-2.9	0.0-0.3	.02	.02			
	39-60	85-95	0-15	0-2	1.50-1.70	20-100	0.01-0.03	1.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3042:														
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	1.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	1.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	1.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	1.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	1.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	1.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	1.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	1.0-2.9	0.3-0.5	.55	.55			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Tucannon	0-5	10-20	60-75	10-20	1.10-1.20	0.6-2	0.17-0.22	1.0-2.9	2.0-4.0	.43	.43	2	4	86
	5-10	15-40	35-70	15-25	1.10-1.25	0.6-2	0.15-0.22	1.0-2.9	1.0-3.0	.49	.49			
	10-21	20-40	35-62	18-25	1.25-1.35	0.6-2	0.11-0.19	1.0-2.9	0.3-0.8	.32	.55			
	21-29	20-45	35-62	18-25	1.25-1.40	0.6-2	0.11-0.18	1.0-2.9	0.0-0.5	.32	.55			
	29-39	---	---	---	---	---	---	---	---	---	---			
Uhlig, dry	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	1.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	1.0-2.9	0.0-0.2	.55	.55			
3044:														
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	1.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			
Uhlig, dry	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	1.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	1.0-2.9	0.0-0.2	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3044:														
Alecanyon	0-7	55-75	10-40	5-15	1.10-1.30	2-4	0.07-0.11	1.0-2.9	2.0-4.0	.15	.28	2	4	86
	7-11	60-75	10-35	5-15	1.15-1.35	2-4	0.04-0.08	1.0-2.9	1.0-2.0	.05	.24			
	11-16	65-85	5-33	2-10	1.45-1.65	6-20	0.01-0.06	1.0-2.9	0.3-0.8	.02	.15			
	16-39	80-95	0-20	0-4	1.50-1.70	20-100	0.01-0.03	1.0-2.9	0.0-0.3	.02	.02			
	39-60	80-95	0-20	0-2	1.50-1.70	20-100	0.01-0.03	1.0-2.9	0.0-0.3	.02	.02			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	1.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	1.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	1.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Seaboldt, dry	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	1.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	1.0-2.9	0.0-0.2	.55	.55			
3045:														
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Deno	0-4	10-30	55-80	10-18	1.10-1.20	0.6-2	0.20-0.22	0.0-2.9	1.0-3.0	.49	.49	3	4	86
	4-14	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	0.0-2.9	1.0-3.0	.49	.49			
	14-28	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	0.0-2.9	1.0-3.0	.49	.49			
	28-40	25-50	35-65	10-18	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	0.5-2.0	.49	.49			
	40-48	55-75	10-35	4-15	1.35-1.50	2-6	0.11-0.13	0.0-2.9	0.0-0.5	.32	.32			
	48-58	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3045:														
Cocolalla----------	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Cheney----------	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Seaboldt, dry-------	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
3046:														
Cheney----------	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	1.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			
Seaboldt, dry-------	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	1.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	1.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3046:														
Uhlig, dry----------	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	1.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	1.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	1.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	1.0-2.9	0.0-0.2	.55	.55			
Cocolalla----------	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	1.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	1.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	1.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
Fourmound----------	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	1.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	1.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	1.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	1.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	1.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
3047:														
Rockly----------	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	1.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	1.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Deno----------	0-4	10-30	55-80	10-18	1.10-1.20	0.6-2	0.20-0.22	1.0-2.9	1.0-3.0	.49	.49	3	4	86
	4-14	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	1.0-2.9	1.0-3.0	.49	.49			
	14-28	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	1.0-2.9	1.0-3.0	.49	.49			
	28-40	25-50	35-65	10-18	1.30-1.45	0.6-2	0.15-0.18	1.0-2.9	0.5-2.0	.49	.49			
	40-48	55-75	10-35	4-15	1.35-1.50	2-6	0.11-0.13	1.0-2.9	0.0-0.5	.32	.32			
	48-58	---	---	---	---	---	---	---	---	---	---			
Rock outcrop, cliffs	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Cocolalla----------	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	1.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	1.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	1.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3047:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	1.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
3048:														
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	1.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	1.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	1.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	1.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	1.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	1.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	1.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	1.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3048:														
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	1.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	1.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	1.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	1.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3049:														
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	1.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	1.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	1.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	1.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	1.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	1.0-2.9	0.0-0.5	.64	.64			
Rock outcrop, cliffs	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Deno	0-4	10-30	55-80	10-18	1.10-1.20	0.6-2	0.20-0.22	1.0-2.9	1.0-3.0	.49	.49	3	4	86
	4-14	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	1.0-2.9	1.0-3.0	.49	.49			
	14-28	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	1.0-2.9	1.0-3.0	.49	.49			
	28-40	25-50	35-65	10-18	1.30-1.45	0.6-2	0.15-0.18	1.0-2.9	0.5-2.0	.49	.49			
	40-48	55-75	10-35	4-15	1.35-1.50	2-6	0.11-0.13	1.0-2.9	0.0-0.5	.32	.32			
	48-58	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3049:														
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	1.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3054:														
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Clayton, silty subsoil	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	10-20	60-70	10-30	1.35-1.50	0.2-2	0.19-0.21	0.0-2.9	0.0-0.5	.55	.55			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Phoebe, dry	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3054:														
Marblespring--------	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
3055:														
Clayton-------------	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Hagen---------------	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Clayton, silty subsoil----------	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	10-20	60-70	10-30	1.35-1.50	0.2-2	0.19-0.21	0.0-2.9	0.0-0.5	.55	.55			
Endoaquolls---------	0-5	40-50	30-53	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	5	5	56
	5-11	20-65	15-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	10-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	10-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	10-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.43	.43			
	45-60	55-85	5-45	0-10	1.30-1.60	2-20	0.03-0.15	0.0-2.9	0.0-0.5	.37	.37			
Marblespring--------	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3056:														
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	1.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	1.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	1.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	1.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	1.0-2.9	0.0-0.3	.10	.10			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	1.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	1.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	1.0-2.9	0.0-0.3	.02	.02			
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	1.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	1.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	1.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	1.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	1.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	1.0-2.9	0.0-0.5	.28	.28			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
Marblespring	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	1.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	1.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	1.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	1.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.3	.02	.02			
3057:														
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	1.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	1.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	1.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	1.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	1.0-2.9	0.0-0.3	.10	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3057:														
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	1.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	1.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	1.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	1.0-2.9	0.0-0.3	.02	.02			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
Marblespring	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	1.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	1.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	1.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	1.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.3	.02	.02			
3060:														
Dearyton	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3060:														
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Skalan--------------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
3061:														
Dearyton------------	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Glenrose------------	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	1.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	1.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	1.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	1.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	1.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	1.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	1.0-2.9	0.3-0.5	.37	.37			
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	1.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	1.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	1.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3061:														
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Skalan--------------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	1.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	1.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	1.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	1.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
Endoaquolls---------	0-5	40-50	30-53	7-20	0.90-1.30	0.6-2	0.14-0.18	1.0-2.9	3.0-7.0	.32	.32	5	5	56
	5-11	20-65	15-75	5-20	1.00-1.40	0.6-2	0.11-0.21	1.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	10-75	5-20	1.10-1.50	0.6-6	0.09-0.21	1.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	10-75	5-20	1.10-1.50	0.6-6	0.07-0.21	1.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	10-55	0-18	1.30-1.50	0.6-6	0.04-0.18	1.0-2.9	0.0-1.0	.43	.43			
	45-60	55-85	5-45	0-10	1.30-1.60	2-20	0.03-0.15	1.0-2.9	0.0-0.5	.37	.37			
3062:														
Dearyton------------	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	1.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	1.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	1.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Skalan--------------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	1.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	1.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	1.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	1.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3062:														
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	1.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	1.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	1.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	1.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3070:														
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3070:														
Stien, very stony surface	0-1	---	---	3-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-3	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	2.0-4.0	.49	.49			
	3-8	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	1.0-2.0	.55	.55			
	8-16	30-50	45-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	0.5-1.5	.55	.55			
	16-24	30-50	45-65	3-10	0.70-0.85	0.6-2	0.14-0.16	0.0-2.9	0.3-0.8	.28	.64			
	24-31	50-65	30-40	4-10	1.35-1.55	2-6	0.05-0.09	0.0-2.9	0.3-0.8	.15	.55			
	31-48	75-85	10-20	3-5	1.40-1.60	6-20	0.01-0.06	0.0-2.9	0.0-0.5	.10	.32			
	48-60	85-100	0-12	0-3	1.50-1.70	20-100	0.01-0.02	0.0-2.9	0.0-0.3	.02	.15			
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
3071:														
Stien, very stony surface	0-1	---	---	3-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-3	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	2.0-4.0	.49	.49			
	3-8	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	1.0-2.0	.55	.55			
	8-16	30-50	45-65	3-10	0.70-0.85	0.6-2	0.29-0.31	0.0-2.9	0.5-1.5	.55	.55			
	16-24	30-50	45-65	3-10	0.70-0.85	0.6-2	0.14-0.16	0.0-2.9	0.3-0.8	.28	.64			
	24-31	50-65	30-40	4-10	1.35-1.55	2-6	0.05-0.09	0.0-2.9	0.3-0.8	.15	.55			
	31-48	75-85	10-20	3-5	1.40-1.60	6-20	0.01-0.06	0.0-2.9	0.0-0.5	.10	.32			
	48-60	85-100	0-12	0-3	1.50-1.70	20-100	0.01-0.02	0.0-2.9	0.0-0.3	.02	.15			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3071:														
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
3072:														
Stien, very stony surface	0-1	---	---	3-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-3	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	2.0-4.0	.49	.49			
	3-8	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	1.0-2.0	.55	.55			
	8-16	30-50	45-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	0.5-1.5	.55	.55			
	16-24	30-50	45-65	3-10	0.70-0.85	0.6-2	0.14-0.16	1.0-2.9	0.3-0.8	.28	.64			
	24-31	50-65	30-40	4-10	1.35-1.55	2-6	0.05-0.09	1.0-2.9	0.3-0.8	.15	.55			
	31-48	75-85	10-20	3-5	1.40-1.60	6-20	0.01-0.06	1.0-2.9	0.0-0.5	.10	.32			
	48-60	85-100	0-12	0-3	1.50-1.70	20-100	0.01-0.02	1.0-2.9	0.0-0.3	.02	.15			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	1.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	1.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	1.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	1.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	1.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	1.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3072:														
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	1.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	1.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	1.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	1.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	1.0-2.9	0.0-0.1	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	1.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	1.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	1.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	1.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	1.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	1.0-2.9	0.0-0.5	.10	.10			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	1.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	1.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	1.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	1.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
3073:														
Stien, very stony surface	0-1	---	---	3-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-3	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	2.0-4.0	.49	.49			
	3-8	30-40	50-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	1.0-2.0	.55	.55			
	8-16	30-50	45-65	3-10	0.70-0.85	0.6-2	0.29-0.31	1.0-2.9	0.5-1.5	.55	.55			
	16-24	30-50	45-65	3-10	0.70-0.85	0.6-2	0.14-0.16	1.0-2.9	0.3-0.8	.28	.64			
	24-31	50-65	30-40	4-10	1.35-1.55	2-6	0.05-0.09	1.0-2.9	0.3-0.8	.15	.55			
	31-48	75-85	10-20	3-5	1.40-1.60	6-20	0.01-0.06	1.0-2.9	0.0-0.5	.10	.32			
	48-60	85-100	0-12	0-3	1.50-1.70	20-100	0.01-0.02	1.0-2.9	0.0-0.3	.02	.15			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3073:														
Blackprince---------	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	1.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	1.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	1.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	1.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Scrabblers----------	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	1.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	1.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	1.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	1.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	1.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	1.0-2.9	0.0-0.3	.02	.02			
Wapal---------------	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	1.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	1.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	1.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	1.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	1.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	1.0-2.9	0.0-0.1	.02	.02			
3074:														
Eloika, moist-------	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Kaniksu-------------	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3074:														
Scrabblers----------	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Bonner--------------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	2	134
	1-3	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-5	55-65	30-40	4-8	0.70-0.90	2-6	0.20-0.22	0.0-2.9	3.0-5.0	.28	.28			
	5-9	55-65	30-40	4-8	0.75-0.95	2-6	0.20-0.22	0.0-2.9	1.0-3.0	.37	.37			
	9-19	55-65	30-40	4-8	0.80-1.00	2-6	0.15-0.22	0.0-2.9	0.5-1.5	.37	.37			
	19-27	75-85	10-20	0-5	1.45-1.60	6-20	0.03-0.50	0.0-2.9	0.0-0.2	.10	.24			
	27-60	85-95	5-15	0-3	1.45-1.60	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
Colburn-------------	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Torboy--------------	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Fan Lake------------	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3074:														
Wolfeson	0-9	55-70	15-40	5-15	1.20-1.40	2-6	0.14-0.16	0.0-2.9	1.0-3.0	.28	.28	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			
3080:														
Opportunity	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Garrison	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	0.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	0.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3081:														
Opportunity---------	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Garrison------------	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	0.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Hardesty------------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Springdale----------	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	0.0-2.9	0.0-0.0	.02	.02			
3082:														
Opportunity---------	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	1.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3082:														
Garrison	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	1.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	1.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	1.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.10			
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	1.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	1.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	1.0-2.9	0.0-0.0	.02	.02			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	1.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	1.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	1.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	1.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	1.0-2.9	0.0-0.3	.64	.64			
3083:														
Garrison	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	0.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Opportunity	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3083:														
Springdale----------	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	0.0-2.9	0.0-0.0	.02	.02			
3084:														
Garrison----------	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	0.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Garrison, extremely stony surface------	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	0.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.10	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Opportunity---------	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Springdale----------	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	0.0-2.9	0.0-0.0	.02	.02			
3085:														
Garrison----------	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	1.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	1.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	1.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3085:														
Opportunity---------	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	1.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			
Springdale----------	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	1.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	1.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	1.0-2.9	0.0-0.0	.02	.02			
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3087:														
Garrison, extremely stony surface------	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	1.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	1.0-2.9	2.0-4.0	.10	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	1.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.10			
Garrison------------	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	1.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	1.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	1.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.10			
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Opportunity---------	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	1.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	1.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	1.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	1.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3087:														
Springdale----------	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.09-0.13	1.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.06-0.12	1.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.02-0.05	1.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.04	1.0-2.9	0.0-0.0	.02	.02			
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3090:														
Glenrose----------	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Larkin----------	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Dearyton----------	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3090:														
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Endoaquolls	0-5	40-50	30-53	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	5	5	56
	5-11	20-65	15-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	10-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	10-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	10-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.43	.43			
	45-60	55-85	5-45	0-10	1.30-1.60	2-20	0.03-0.15	0.0-2.9	0.0-0.5	.37	.37			
3091:														
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Dearyton	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Glenrose, cobbly surface	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.15-0.19	0.0-2.9	2.5-4.5	.28	.43	5	5	56
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3091:														
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Kruse----------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Larkin----------	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Spokane----------	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
3101:														
Green Bluff----------	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3101:														
Blinn	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	30-60	---	---			
	2-6	20-40	50-65	8-15	1.00-1.20	0.6-2	0.18-0.20	0.0-2.9	2.0-5.0	.32	.32			
	6-12	20-40	50-60	10-20	1.00-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.43			
	12-24	30-45	35-55	12-20	1.40-1.55	0.6-2	0.12-0.14	0.0-2.9	0.5-1.5	.20	.43			
	24-39	35-50	35-50	10-20	1.40-1.55	0.6-2	0.06-0.09	0.0-2.9	0.3-0.8	.15	.49			
	39-49	---	---	---	---	---	---	---	---	---	---			
Brincken, moist	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Hoodoo	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
3102:														
Green Bluff	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	0.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	0.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	0.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	0.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3102:														
Brincken, moist-----	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Klickson----------	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Lakespring----------	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Hoodoo--------------	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3110:														
Fourmound-----------	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3110:														
Stutler----------	0-1	---	---	8-20	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	5	56
	1-5	20-40	40-70	8-20	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	2.0-3.0	.28	.49			
	5-12	20-45	40-70	7-18	1.15-1.35	0.6-2	0.17-0.18	0.0-2.9	1.0-2.0	.24	.55			
	12-22	30-75	10-60	4-18	1.25-1.45	0.6-6	0.09-0.11	0.0-2.9	0.5-1.3	.15	.55			
	22-32	35-70	12-47	4-18	1.25-1.45	2-6	0.03-0.04	0.0-2.9	0.3-0.8	.05	.43			
	32-42	40-75	10-45	4-18	1.30-1.50	2-6	0.01-0.02	0.0-2.9	0.3-0.8	.02	.20			
	42-61	80-100	0-20	0-7	1.50-1.60	6-100	0.00-0.01	0.0-2.9	0.0-0.3	.02	.05			
Hardesty----------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Seaboldt, warm------	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Rockly----------	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Cocolalla----------	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
3112:														
Stutler, extremely bouldery surface---	0-1	---	---	8-20	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-5	42-50	40-48	8-20	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	2.0-3.0	.24	.43			
	5-12	20-45	40-70	7-18	1.15-1.35	0.6-2	0.17-0.18	0.0-2.9	1.0-2.0	.24	.43			
	12-22	30-75	10-60	4-18	1.25-1.45	0.6-6	0.09-0.11	0.0-2.9	0.5-1.3	.05	.37			
	22-32	35-70	12-47	4-18	1.25-1.45	2-6	0.03-0.04	0.0-2.9	0.3-0.8	.05	.37			
	32-42	40-75	10-45	4-18	1.30-1.50	2-6	0.01-0.02	0.0-2.9	0.3-0.8	.02	.28			
	42-61	80-100	0-20	0-7	1.50-1.60	6-100	0.00-0.01	0.0-2.9	0.0-0.3	.02	.05			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3112:														
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
3113:														
Stutler	0-1	---	---	8-20	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	5	56
	1-5	20-40	40-70	8-20	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	2.0-3.0	.28	.49			
	5-12	20-45	40-70	7-18	1.15-1.35	0.6-2	0.17-0.18	0.0-2.9	1.0-2.0	.24	.55			
	12-22	30-75	10-60	4-18	1.25-1.45	0.6-6	0.09-0.11	0.0-2.9	0.5-1.3	.15	.55			
	22-32	35-70	12-47	4-18	1.25-1.45	2-6	0.03-0.04	0.0-2.9	0.3-0.8	.05	.43			
	32-42	40-75	10-45	4-18	1.30-1.50	2-6	0.01-0.02	0.0-2.9	0.3-0.8	.02	.20			
	42-61	80-100	0-20	0-7	1.50-1.60	6-100	0.00-0.01	0.0-2.9	0.0-0.3	.02	.05			
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3113:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3114:														
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3114:														
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3115:														
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3115:														
Stutler	0-1	---	---	8-20	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	5	56
	1-5	20-40	40-70	8-20	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	2.0-3.0	.28	.49			
	5-12	20-45	40-70	7-18	1.15-1.35	0.6-2	0.17-0.18	0.0-2.9	1.0-2.0	.24	.55			
	12-22	30-75	10-60	4-18	1.25-1.45	0.6-6	0.09-0.11	0.0-2.9	0.5-1.3	.15	.55			
	22-32	35-70	12-47	4-18	1.25-1.45	2-6	0.03-0.04	0.0-2.9	0.3-0.8	.05	.43			
	32-42	40-75	10-45	4-18	1.30-1.50	2-6	0.01-0.02	0.0-2.9	0.3-0.8	.02	.20			
	42-61	80-100	0-20	0-7	1.50-1.60	6-100	0.00-0.01	0.0-2.9	0.0-0.3	.02	.05			
Klickson	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
3116:														
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3116:														
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
3117:														
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3117:														
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
3118:														
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3120:														
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Marblespring	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
3121:														
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Marblespring	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3121:														
Bong	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3122:														
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Marblespring	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3122:														
Bong	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
3123:														
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Spens, cool	0-3	76-85	11-21	2-5	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	76-95	1-21	0-5	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	76-95	1-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Bong	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3123:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3126:														
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Rockly	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3127:														
Marblespring--------	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-2	80-85	5-15	5-10	1.25-1.45	6-20	0.04-0.06	0.0-2.9	1.0-3.0	.02	.05			
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Marble--------------	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Hardesty------------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Phoebe--------------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Spens---------------	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
3130:														
Phoebe--------------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3130:														
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Bong	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3131:														
Phoebe	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Bong	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3132:														
Bong, moist---------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Phoebe--------------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Marble--------------	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Hardesty------------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3133:														
Phoebe, dry---------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Clayton------------	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Bong----------------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3133:														
Hardesty----------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3134:														
Phoebe, dry---------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Bong----------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Clayton----------	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Hardesty----------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3135:														
Bong----------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3135:														
Phoebe, dry---------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Marble--------------	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Hardesty------------	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3140:														
Springdale----------	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Marble--------------	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Garrison------------	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	0.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3140:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Opportunity	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Springdale, stony surface	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
3141:														
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3141:														
Garrison	0-4	40-50	40-50	10-18	1.15-1.30	0.6-2	0.08-0.13	0.0-2.9	3.0-5.0	.10	.24	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Opportunity	0-7	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3142:														
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3142:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3143:														
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3144:														
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
Bonner	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	2	134
	1-3	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-5	55-65	30-40	4-8	0.70-0.90	2-6	0.20-0.22	0.0-2.9	3.0-5.0	.28	.28			
	5-9	55-65	30-40	4-8	0.75-0.95	2-6	0.20-0.22	0.0-2.9	1.0-3.0	.37	.37			
	9-19	55-65	30-40	4-8	0.80-1.00	2-6	0.15-0.22	0.0-2.9	0.5-1.5	.37	.37			
	19-27	75-85	10-20	0-5	1.45-1.60	6-20	0.03-0.50	0.0-2.9	0.0-0.2	.10	.24			
	27-60	85-95	5-15	0-3	1.45-1.60	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
3145:														
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
Scoap	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-7	55-65	25-35	8-12	1.20-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.20			
	7-17	55-65	25-35	8-12	1.20-1.40	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.24			
	17-30	55-65	25-35	8-12	1.40-1.50	0.6-2	0.04-0.06	0.0-2.9	0.5-1.0	.10	.32			
	30-47	55-65	25-35	8-12	1.40-1.50	2-6	0.04-0.06	0.0-2.9	0.3-0.8	.10	.32			
	47-60	65-80	10-25	3-10	1.40-1.50	2-20	0.03-0.06	0.0-2.9	0.0-0.5	.05	.15			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3145:														
Springdale----------	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Elmira--------------	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Klickson------------	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
3146:														
Scoap---------------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-7	55-65	---	8-12	1.20-1.40	0.6-2	0.07-0.09	0.0-2.9	2.0-4.0	.10	.20			
	7-17	55-65	25-35	8-12	1.20-1.40	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.24			
	17-30	55-65	25-35	8-12	1.40-1.50	0.6-2	0.04-0.06	0.0-2.9	0.5-1.0	.10	.32			
	30-47	55-65	25-35	8-12	1.40-1.50	2-6	0.04-0.06	0.0-2.9	0.3-0.8	.10	.32			
	47-60	65-80	10-25	3-10	1.40-1.50	2-20	0.03-0.06	0.0-2.9	0.0-0.5	.05	.15			
Wapal---------------	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3146:														
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Klickson	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3147:														
Spens, cool	0-3	76-85	11-21	2-5	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	76-95	1-21	0-5	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	76-95	1-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Springdale	0-1	---	---	2-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	4	86
	1-3	55-70	25-40	2-8	1.20-1.40	2-6	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20			
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3147:														
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			
3148:														
Spens, cool	0-3	76-85	11-21	2-5	1.35-1.45	20-100	0.04-0.06	1.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	76-95	1-21	0-5	1.45-1.60	20-100	0.03-0.05	1.0-2.9	0.3-0.8	.05	.10			
	18-60	76-95	1-21	0-4	1.45-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.0	.02	.02			
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
Wapal	0-2	30-40	---	0-7	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	2-6	60-65	28-35	0-7	1.25-1.35	2-6	0.07-0.09	0.0-2.9	3.0-5.0	.15	.24			
	6-13	60-65	28-35	0-7	1.30-1.40	2-6	0.05-0.07	0.0-2.9	1.0-3.0	.15	.28			
	13-17	60-65	28-35	0-7	1.45-1.55	2-6	0.06-0.08	0.0-2.9	1.0-2.0	.10	.28			
	17-21	75-85	15-21	0-4	1.60-1.70	6-20	0.02-0.04	0.0-2.9	0.2-0.8	.05	.20			
	21-30	85-95	5-11	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.1-0.2	.02	.02			
	30-36	85-95	5-15	0-4	1.65-1.75	20-100	0.02-0.04	0.0-2.9	0.0-0.1	.02	.02			
	36-62	85-95	5-15	0-4	1.65-1.75	20-100	0.01-0.03	0.0-2.9	0.0-0.1	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3200:														
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
3201:														
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.12-0.16	0.0-2.9	2.0-3.0	.24	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.09-0.15	0.0-2.9	1.0-2.0	.28	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.09-0.15	0.0-2.9	0.5-1.0	.32	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.02-0.05	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.05	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3201:														
Eloika----------	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Scrabblers----------	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Blackprince---------	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
3202:														
Torboy----------	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Blackprince---------	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3202:														
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3210:														
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3210:														
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Wolfeson	0-9	55-70	15-40	5-15	1.20-1.40	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.49	.49	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			
3211:														
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3211:														
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
3212:														
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
Seaboldt	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Stapaloop	0-8	50-60	35-42	4-8	1.20-1.35	0.6-2	0.16-0.18	0.0-2.9	1.5-3.5	.37	.37	5	2	134
	8-14	55-65	30-37	4-8	1.20-1.40	0.6-2	0.13-0.18	0.0-2.9	0.3-0.7	.37	.37			
	14-22	55-65	27-37	4-8	1.25-1.45	0.6-2	0.13-0.18	0.0-2.9	0.2-0.4	.37	.37			
	22-32	55-70	25-39	2-6	1.35-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0-0.2	.37	.37			
	32-52	65-80	14-30	2-6	1.35-1.50	0.6-2	0.06-0.15	0.0-2.9	0.0-0.2	.32	.32			
	52-60	65-85	13-30	2-5	1.40-1.60	2-6	0.05-0.13	0.0-2.9	0.0-0.1	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3212:														
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3220:														
Stapaloop	0-8	50-60	35-42	4-8	1.20-1.35	0.6-2	0.16-0.18	0.0-2.9	1.5-3.5	.37	.37	5	2	134
	8-14	55-65	30-37	4-8	1.20-1.40	0.6-2	0.13-0.18	0.0-2.9	0.3-0.7	.37	.37			
	14-22	55-65	27-37	4-8	1.25-1.45	0.6-2	0.13-0.18	0.0-2.9	0.2-0.4	.37	.37			
	22-32	55-70	25-39	2-6	1.35-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0-0.2	.37	.37			
	32-52	65-80	14-30	2-6	1.35-1.50	0.6-2	0.06-0.15	0.0-2.9	0.0-0.2	.32	.32			
	52-60	65-85	13-30	2-5	1.40-1.60	2-6	0.05-0.13	0.0-2.9	0.0-0.1	.32	.32			
Fan Lake	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3220:														
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Wolfeson	0-9	55-70	15-40	5-15	1.20-1.40	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.49	.49	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			
3221:														
Stapaloop	0-8	50-60	35-42	4-8	1.20-1.35	0.6-2	0.16-0.18	0.0-2.9	1.5-3.5	.37	.37	5	2	134
	8-14	55-65	30-37	4-8	1.20-1.40	0.6-2	0.13-0.18	0.0-2.9	0.3-0.7	.37	.37			
	14-22	55-65	27-37	4-8	1.25-1.45	0.6-2	0.13-0.18	0.0-2.9	0.2-0.4	.37	.37			
	22-32	55-70	25-39	2-6	1.35-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0-0.2	.37	.37			
	32-52	65-80	14-30	2-6	1.35-1.50	0.6-2	0.06-0.15	0.0-2.9	0.0-0.2	.32	.32			
	52-60	65-85	13-30	2-5	1.40-1.60	2-6	0.05-0.13	0.0-2.9	0.0-0.1	.32	.32			
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
Fan Lake	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3221:														
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
3222:														
Stapaloop	0-8	50-60	35-42	4-8	1.20-1.35	0.6-2	0.16-0.18	0.0-2.9	1.5-3.5	.37	.37	5	2	134
	8-14	55-65	30-37	4-8	1.20-1.40	0.6-2	0.13-0.18	0.0-2.9	0.3-0.7	.37	.37			
	14-22	55-65	27-37	4-8	1.25-1.45	0.6-2	0.13-0.18	0.0-2.9	0.2-0.4	.37	.37			
	22-32	55-70	25-39	2-6	1.35-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0-0.2	.37	.37			
	32-52	65-80	14-30	2-6	1.35-1.50	0.6-2	0.06-0.15	0.0-2.9	0.0-0.2	.32	.32			
	52-60	65-85	13-30	2-5	1.40-1.60	2-6	0.05-0.13	0.0-2.9	0.0-0.1	.32	.32			
Seaboldt	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3222:														
Fan Lake	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3300:														
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3300:														
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
3301:														
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3301:														
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Kaniksu	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28			
	6-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-25	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	25-43	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
	43-55	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.10	.10			
	55-70	85-95	5-10	0-5	1.50-1.65	6-20	0.03-0.08	0.0-2.9	0.0-0.3	.02	.02			
3302:														
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3302:														
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
Eloika, moist	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			
3303:														
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Torboy	0-0.5	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	0.5-1	---	---	5-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	1-7	55-70	20-40	5-10	1.10-1.30	2-6	0.08-0.10	0.0-2.9	2.0-3.0	.17	.24			
	7-11	55-70	20-40	5-10	1.15-1.35	2-6	0.08-0.13	0.0-2.9	1.0-2.0	.20	.28			
	11-22	55-70	20-40	5-10	1.20-1.40	2-6	0.08-0.13	0.0-2.9	0.5-1.0	.24	.32			
	22-33	75-95	5-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.10	.10			
	33-45	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
	45-60	80-100	0-20	0-5	1.50-1.70	6-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
Eloika	0-1	---	---	0-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-6	50-70	25-45	3-9	0.60-0.85	0.6-2	0.18-0.23	0.0-2.9	2.0-4.0	.49	.49			
	6-14	25-70	25-70	3-9	0.75-0.90	0.6-2	0.16-0.23	0.0-2.9	1.0-3.0	.55	.55			
	14-21	25-65	26-70	3-9	0.75-0.90	0.6-2	0.14-0.21	0.0-2.9	0.5-1.0	.64	.64			
	21-41	45-65	25-50	5-10	1.30-1.50	2-6	0.09-0.15	0.0-2.9	0.3-0.8	.43	.43			
	41-60	80-95	0-15	1-5	1.40-1.60	20-100	0.01-0.04	0.0-2.9	0.0-0.2	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3303:														
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
3401:														
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3402:														
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Stapaloop	0-8	50-60	35-42	4-8	1.20-1.35	0.6-2	0.16-0.18	0.0-2.9	1.5-3.5	.37	.37	5	2	134
	8-14	55-65	30-37	4-8	1.20-1.40	0.6-2	0.13-0.18	0.0-2.9	0.3-0.7	.37	.37			
	14-22	55-65	27-37	4-8	1.25-1.45	0.6-2	0.13-0.18	0.0-2.9	0.2-0.4	.37	.37			
	22-32	55-70	25-39	2-6	1.35-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0-0.2	.37	.37			
	32-52	65-80	14-30	2-6	1.35-1.50	0.6-2	0.06-0.15	0.0-2.9	0.0-0.2	.32	.32			
	52-60	65-85	13-30	2-5	1.40-1.60	2-6	0.05-0.13	0.0-2.9	0.0-0.1	.32	.32			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3403:														
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Hagen	0-7	55-70	25-35	4-10	1.20-1.40	2-6	0.12-0.14	0.0-2.9	1.0-3.0	.28	.28	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Scrabblers	0-1	---	---	2-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	1-5	55-60	30-40	2-10	0.75-0.90	2-6	0.20-0.23	0.0-2.9	2.0-3.0	.37	.37			
	5-8	55-60	30-40	2-10	0.75-0.90	2-6	0.17-0.23	0.0-2.9	1.0-2.0	.37	.37			
	8-12	55-60	32-40	2-8	0.75-0.90	2-6	0.15-0.23	0.0-2.9	0.5-1.0	.43	.43			
	12-23	60-70	30-35	0-5	1.45-1.60	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.24	.37			
	23-36	75-95	5-20	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.20	.20			
	36-60	85-95	5-10	0-5	1.50-1.60	6-20	0.02-0.06	0.0-2.9	0.0-0.3	.02	.02			
Colburn	0-1	---	---	8-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-5	45-50	35-45	8-15	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37			
	5-12	45-70	25-45	5-12	1.00-1.20	2-6	0.13-0.18	0.0-2.9	0.5-1.5	.28	.28			
	12-21	55-70	25-35	5-12	1.10-1.30	2-6	0.14-0.18	0.0-2.9	0.3-0.8	.32	.32			
	21-32	55-70	25-35	5-12	1.20-1.40	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32			
	32-43	70-85	15-25	0-5	1.40-1.60	6-100	0.05-0.10	0.0-2.9	0.0-0.5	.20	.20			
	43-55	75-90	10-25	0-5	1.40-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.5	.02	.10			
	55-60	80-90	10-15	0-5	1.40-1.60	20-100	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
3404:														
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3404:														
Seaboldt	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Kaniksu, dry	0-7	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	5	2	134
	7-15	60-70	25-35	4-8	1.15-1.35	2-6	0.13-0.18	0.0-2.9	0.5-0.8	.28	.28			
	15-23	60-70	25-35	4-8	1.20-1.35	2-6	0.11-0.15	0.0-2.9	0.3-0.5	.28	.28			
	23-42	65-85	10-27	2-8	1.35-1.65	2-6	0.06-0.13	0.0-2.9	0.0-0.3	.17	.17			
	42-60	80-90	2-15	2-8	1.35-1.65	2-6	0.03-0.10	0.0-2.9	0.0-0.3	.17	.17			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3500:														
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3500:														
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
3501:														
Brincken, moist	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Fourmound	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Seaboldt	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Nez Perce	0-6	8-15	70-75	10-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.49	.49	3	4	86
	6-10	8-15	70-75	10-20	1.15-1.35	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.55	.55			
	10-19	8-12	70-75	13-18	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-30	5-10	45-55	35-55	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.8	.28	.28			
	30-42	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.28	.28			
	42-60	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3502:														
Brincken, moist-----	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Fourmound-----------	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Speigle------------	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
Bobbitt------------	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	0.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	0.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	0.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	0.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
3503:														
Uhlig, dry----------	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Bong----------------	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3503:														
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
Deno	0-4	10-30	55-80	10-18	1.10-1.20	0.6-2	0.20-0.22	0.0-2.9	1.0-3.0	.49	.49	3	4	86
	4-14	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	0.0-2.9	1.0-3.0	.49	.49			
	14-28	35-50	35-55	10-18	1.10-1.20	0.6-2	0.17-0.19	0.0-2.9	1.0-3.0	.49	.49			
	28-40	25-50	35-65	10-18	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	0.5-2.0	.49	.49			
	40-48	55-75	10-35	4-15	1.35-1.50	2-6	0.11-0.13	0.0-2.9	0.0-0.5	.32	.32			
	48-58	---	---	---	---	---	---	---	---	---	---			
Seaboldt, dry	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
3504:														
Brincken	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3504:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Cheney	0-10	10-30	55-80	10-18	1.10-1.30	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.37	.37	3	4	86
	10-14	10-45	37-80	10-18	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	14-22	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.5-1.5	.49	.49			
	22-28	15-45	37-75	10-18	1.20-1.40	0.6-2	0.15-0.23	3.0-5.9	0.3-0.8	.49	.49			
	28-32	60-85	5-35	4-10	1.25-1.55	6-20	0.02-0.08	0.0-2.9	0.3-0.5	.10	.28			
	32-60	75-95	0-21	0-4	1.35-1.55	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Uhlig, dry	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Tucannon	0-5	10-20	60-75	10-20	1.10-1.20	0.6-2	0.17-0.22	0.0-2.9	2.0-4.0	.43	.43	2	4	86
	5-10	15-40	35-70	15-25	1.10-1.25	0.6-2	0.15-0.22	0.0-2.9	1.0-3.0	.49	.49			
	10-21	20-40	35-62	18-25	1.25-1.35	0.6-2	0.11-0.19	0.0-2.9	0.3-0.8	.32	.55			
	21-29	20-45	35-62	18-25	1.25-1.40	0.6-2	0.11-0.18	0.0-2.9	0.0-0.5	.32	.55			
	29-39	---	---	---	---	---	---	---	---	---	---			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
3505:														
Seaboldt, warm	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3505:														
Brincken, moist-----	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Nez Perce-----------	0-6	8-15	70-75	10-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.49	.49	3	4	86
	6-10	8-15	70-75	10-20	1.15-1.35	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.55	.55			
	10-19	8-12	70-75	13-18	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-30	5-10	45-55	35-55	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.8	.28	.28			
	30-42	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.28	.28			
	42-60	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.32	.32			
Uhlig---------------	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3600:														
Seaboldt------------	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Uhlig---------------	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Rockly--------------	0-3	36-48	37-49	7-15	1.30-1.40	0.6-2	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3600:														
Brincken, moist-----	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Fourmound-----------	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Phoebe--------------	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Narcisse------------	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
3601:														
Seaboldt------------	0-7	35-45	35-45	10-22	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Fourmound-----------	0-4	10-35	55-75	4-18	1.15-1.20	0.6-2	0.17-0.20	0.0-2.9	2.0-5.0	.24	.32	3	5	56
	4-9	10-50	35-75	4-18	1.15-1.25	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.49	.49			
	9-15	10-50	35-75	4-18	1.15-1.35	0.6-2	0.17-0.20	0.0-2.9	1.0-3.0	.55	.55			
	15-30	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.5-2.0	.55	.55			
	30-43	10-50	35-75	4-18	1.30-1.45	0.6-2	0.16-0.19	0.0-2.9	0.3-1.0	.64	.64			
	43-47	10-50	35-75	5-15	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.0-1.0	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
3601:														
Northstar	0-1	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	2	7	38
	1-3	---	---	7-10	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-6	45-52	40-48	7-10	1.00-1.20	0.6-2	0.04-0.08	0.0-2.9	2.0-4.0	.05	.37			
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Phoebe	0-8	60-70	20-30	5-15	1.15-1.30	2-6	0.15-0.18	0.0-2.9	2.0-4.0	.15	.15	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
4000:														
Hunters	0-6	10-15	70-75	12-18	1.15-1.30	0.6-2	0.20-0.22	0.0-2.9	2.0-3.0	.43	.43	5	4	86
	6-14	10-15	70-75	12-18	1.20-1.35	0.6-2	0.20-0.22	0.0-2.9	1.0-3.0	.49	.49			
	14-26	15-20	65-70	12-18	1.30-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-36	15-25	57-82	3-18	1.35-1.55	0.2-0.6	0.15-0.20	0.0-2.9	0.1-0.5	.64	.64			
	36-46	5-15	75-85	3-10	1.35-1.50	0.2-0.6	0.15-0.18	0.0-2.9	0.1-0.5	.64	.64			
	46-55	5-15	80-91	1-10	1.35-1.50	0.2-0.6	0.15-0.20	0.0-2.9	0.1-0.3	.64	.64			
	55-64	5-55	35-91	1-10	1.35-1.50	0.2-0.6	0.18-0.20	0.0-2.9	0.1-0.2	.64	.64			
Cedonia	0-6	5-25	51-80	14-24	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49	5	4	86
	6-12	5-25	55-75	14-26	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49			
	12-27	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	27-33	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	33-60	5-15	50-80	14-35	1.35-1.50	0.2-0.6	0.16-0.19	0.0-5.9	0.0-0.5	.55	.55			
Peone	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4000:														
Lakespring----------	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
4001:														
Cedonia-------------	0-6	5-25	51-80	14-24	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49	5	4	86
	6-12	5-25	55-75	14-26	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49			
	12-27	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	27-33	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	33-60	5-15	50-80	14-35	1.35-1.50	0.2-0.6	0.16-0.19	0.0-5.9	0.0-0.5	.55	.55			
Green Bluff---------	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			
Lakespring----------	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Hunters-------------	0-6	10-15	70-75	12-18	1.15-1.30	0.6-2	0.20-0.22	0.0-2.9	2.0-3.0	.43	.43	5	4	86
	6-14	10-15	70-75	12-18	1.20-1.35	0.6-2	0.20-0.22	0.0-2.9	1.0-3.0	.49	.49			
	14-26	15-20	65-70	12-18	1.30-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-36	15-25	57-82	3-18	1.35-1.55	0.2-0.6	0.15-0.20	0.0-2.9	0.1-0.5	.64	.64			
	36-46	5-15	75-85	3-10	1.35-1.50	0.2-0.6	0.15-0.18	0.0-2.9	0.1-0.5	.64	.64			
	46-55	5-15	80-91	1-10	1.35-1.50	0.2-0.6	0.15-0.20	0.0-2.9	0.1-0.3	.64	.64			
	55-64	5-55	35-91	1-10	1.35-1.50	0.2-0.6	0.18-0.20	0.0-2.9	0.1-0.2	.64	.64			
Peone---------------	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4002:														
Cedonia	0-6	5-25	51-80	14-24	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49	5	4	86
	6-12	5-25	55-75	14-26	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49			
	12-27	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	27-33	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	33-60	5-15	50-80	14-35	1.35-1.50	0.2-0.6	0.16-0.19	0.0-5.9	0.0-0.5	.55	.55			
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Peone	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			
Green Bluff	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			
Hunters	0-6	10-15	70-75	12-18	1.15-1.30	0.6-2	0.20-0.22	0.0-2.9	2.0-3.0	.43	.43	5	4	86
	6-14	10-15	70-75	12-18	1.20-1.35	0.6-2	0.20-0.22	0.0-2.9	1.0-3.0	.49	.49			
	14-26	15-20	65-70	12-18	1.30-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-36	15-25	57-82	3-18	1.35-1.55	0.2-0.6	0.15-0.20	0.0-2.9	0.1-0.5	.64	.64			
	36-46	5-15	75-85	3-10	1.35-1.50	0.2-0.6	0.15-0.18	0.0-2.9	0.1-0.5	.64	.64			
	46-55	5-15	80-91	1-10	1.35-1.50	0.2-0.6	0.15-0.20	0.0-2.9	0.1-0.3	.64	.64			
	55-64	5-55	35-91	1-10	1.35-1.50	0.2-0.6	0.18-0.20	0.0-2.9	0.1-0.2	.64	.64			
4031:														
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4031:														
Brincken, moist-----	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Cedonia----------	0-6	5-25	51-80	14-24	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49	5	4	86
	6-12	5-25	55-75	14-26	1.10-1.20	0.6-2	0.24-0.26	0.0-4.5	1.0-3.0	.49	.49			
	12-27	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	27-33	5-20	55-85	10-26	1.40-1.50	0.2-0.6	0.18-0.20	0.0-4.5	0.5-1.0	.55	.55			
	33-60	5-15	50-80	14-35	1.35-1.50	0.2-0.6	0.16-0.19	0.0-5.9	0.0-0.5	.55	.55			
Green Bluff---------	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			
Dearyton----------	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Speigle----------	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
4032:														
Lakespring----------	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4032:														
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Brincken, moist	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Dearyton	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Marble	0-1	---	---	2-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-4	75-85	10-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	1.0-3.0	.05	.05			
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Speigle	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4033:														
Lakespring----------	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Brincken, moist-----	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Speigle------------	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	0.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
Dearyton-----------	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
4040:														
Wolfeson------------	0-9	55-70	15-40	5-15	1.20-1.40	2-6	0.14-0.16	0.0-2.9	1.0-3.0	.28	.28	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4040:														
Fan Lake	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			
Stapaloop	0-8	50-60	35-42	4-8	1.20-1.35	0.6-2	0.16-0.18	0.0-2.9	1.5-3.5	.37	.37	5	2	134
	8-14	55-65	30-37	4-8	1.20-1.40	0.6-2	0.13-0.18	0.0-2.9	0.3-0.7	.37	.37			
	14-22	55-65	27-37	4-8	1.25-1.45	0.6-2	0.13-0.18	0.0-2.9	0.2-0.4	.37	.37			
	22-32	55-70	25-39	2-6	1.35-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0-0.2	.37	.37			
	32-52	65-80	14-30	2-6	1.35-1.50	0.6-2	0.06-0.15	0.0-2.9	0.0-0.2	.32	.32			
	52-60	65-85	13-30	2-5	1.40-1.60	2-6	0.05-0.13	0.0-2.9	0.0-0.1	.32	.32			
Bridgeson	0-12	10-25	50-70	18-27	0.90-1.10	0.6-2	0.21-0.23	3.0-5.9	6.0-10	.32	.32	5	4	86
	12-20	10-40	33-70	18-27	1.20-1.40	0.6-2	0.16-0.21	3.0-5.9	1.0-3.0	.49	.49			
	20-31	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.5-1.0	.37	.37			
	31-40	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.3-0.8	.37	.37			
	40-60	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.0-0.5	.32	.32			
4041:														
Wolfeson	0-9	55-70	15-40	5-15	1.20-1.40	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.49	.49	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			
Fan Lake	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			
Bridgeson	0-12	10-25	50-70	18-27	0.90-1.10	0.6-2	0.21-0.23	3.0-5.9	6.0-10	.32	.32	5	4	86
	12-20	10-40	33-70	18-27	1.20-1.40	0.6-2	0.16-0.21	3.0-5.9	1.0-3.0	.49	.49			
	20-31	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.5-1.0	.37	.37			
	31-40	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.3-0.8	.37	.37			
	40-60	20-40	30-60	18-30	1.30-1.50	0.2-0.6	0.16-0.21	3.0-5.9	0.0-0.5	.32	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4041:														
Stapaloop----------	0-8	50-60	35-42	4-8	1.20-1.35	0.6-2	0.16-0.18	0.0-2.9	1.5-3.5	.37	.37	5	2	134
	8-14	55-65	30-37	4-8	1.20-1.40	0.6-2	0.13-0.18	0.0-2.9	0.3-0.7	.37	.37			
	14-22	55-65	27-37	4-8	1.25-1.45	0.6-2	0.13-0.18	0.0-2.9	0.2-0.4	.37	.37			
	22-32	55-70	25-39	2-6	1.35-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0-0.2	.37	.37			
	32-52	65-80	14-30	2-6	1.35-1.50	0.6-2	0.06-0.15	0.0-2.9	0.0-0.2	.32	.32			
	52-60	65-85	13-30	2-5	1.40-1.60	2-6	0.05-0.13	0.0-2.9	0.0-0.1	.32	.32			
4050:														
Fan Lake----------	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			
Green Bluff---------	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			
Klickson----------	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Wolfeson----------	0-9	55-70	15-40	5-15	1.20-1.40	2-6	0.14-0.16	0.0-2.9	1.0-3.0	.28	.28	4	2	134
	9-21	45-75	15-45	5-15	1.25-1.40	0.6-6	0.14-0.20	0.0-2.9	1.0-2.0	.32	.32			
	21-37	45-75	15-45	5-15	1.30-1.45	0.6-6	0.11-0.17	0.0-2.9	0.5-1.5	.37	.37			
	37-48	10-35	30-70	10-40	1.25-1.50	0.2-2	0.12-0.20	0.0-5.9	0.3-0.8	.28	.28			
	48-53	15-80	15-55	5-40	1.25-1.60	0.2-20	0.06-0.18	0.0-5.9	0.2-0.5	.43	.43			
	53-60	15-85	5-55	5-40	1.30-1.60	0.2-20	0.06-0.18	0.0-5.9	0.0-0.1	.15	.15			
Kronquist----------	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4051:														
Fan Lake----------	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			
Klickson----------	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Kruse----------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Blinn, stony surface	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	30-60	---	---			
	2-6	20-40	50-65	8-15	1.00-1.20	0.6-2	0.18-0.20	0.0-2.9	2.0-5.0	.32	.32			
	6-12	20-40	50-60	10-20	1.00-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.43			
	12-24	30-45	35-55	12-20	1.40-1.55	0.6-2	0.12-0.14	0.0-2.9	0.5-1.5	.20	.43			
	24-39	35-50	35-50	10-20	1.40-1.55	0.6-2	0.06-0.09	0.0-2.9	0.3-0.8	.15	.49			
	39-49	---	---	---	---	---	---	---	---	---	---			
Kronquist----------	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
4051:														
Quinnamose----------	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
5001:														
Brickel-------------	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	2	3	86
	1-3	30-45	50-62	3-8	0.60-0.80	0.6-2	0.23-0.27	0.0-2.9	4.0-8.0	.24	.43			
	3-9	30-45	50-62	3-8	0.60-0.80	0.6-2	0.20-0.27	0.0-2.9	3.0-7.0	.20	.43			
	9-19	30-45	50-62	3-8	0.70-0.90	0.6-2	0.10-0.20	0.0-2.9	3.0-5.0	.17	.43			
	19-27	30-45	50-62	3-8	0.70-0.90	0.6-2	0.10-0.20	0.0-2.9	2.0-4.0	.17	.49			
	27-31	50-60	30-46	4-10	0.70-1.30	0.6-6	0.09-0.14	0.0-2.9	1.0-3.0	.15	.64			
	31-41	---	---	---	---	---	---	---	---	---	---			
Vaywood-------------	0-2	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	2-3	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-8	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	3.0-5.0	.43	.43			
	8-20	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	20-24	30-40	51-61	3-9	0.65-0.90	0.6-2	0.16-0.20	0.0-2.9	1.0-2.0	.37	.55			
	24-36	55-60	30-37	6-12	1.30-1.40	2-6	0.10-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-44	55-65	30-40	5-10	1.35-1.55	2-6	0.08-0.10	0.0-2.9	0.0-0.5	.02	.32			
	44-50	70-80	13-25	3-7	1.45-1.55	6-20	0.02-0.08	0.0-2.9	0.0-0.3	.05	.28			
	50-60	75-85	10-20	1-5	1.50-1.60	6-20	0.01-0.03	0.0-2.9	0.0-0.3	.02	.28			
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Brevco--------------	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5001:														
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5023:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5024:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5025:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5026:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5026:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5027:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5027:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5037:														
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5037:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Spens	0-3	75-85	11-21	2-4	1.35-1.45	20-100	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
5040:														
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5040:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5041:														
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5041:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5053:														
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Hysing, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-2	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	18-28	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	28-31	60-80	15-26	2-5	1.40-1.60	6-20	0.02-0.09	0.0-2.9	0.0-0.5	.17	.37			
	31-47	75-95	5-20	2-5	1.40-1.60	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	47-57	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5053:														
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Boulderjud, dry	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5060:														
Bouldercreek, moist	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-4	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.37	.37			
	4-13	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	13-21	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	21-38	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.05	.24			
	38-60	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5060:														
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Lakestarr----------	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Nakarna----------	0-1	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	4	2	134
	1-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-4	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43			
	4-15	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	0.8-1.5	.49	.49			
	15-19	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	19-33	45-70	25-48	4-12	1.40-1.50	2-6	0.07-0.13	0.0-2.9	0.0-0.5	.32	.32			
	33-44	55-70	19-40	4-12	1.40-1.55	2-6	0.07-0.13	0.0-2.9	0.0-0.1	.28	.28			
	44-54	70-85	9-24	2-6	1.50-1.65	2-20	0.05-0.09	0.0-2.9	0.0-0.1	.32	.32			
	54-64	---	---	---	---	---	---	---	---	---	---			
Hoodoo----------	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5061:														
Nakarna----------	0-1	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	4	2	134
	1-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-4	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43			
	4-15	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	0.8-1.5	.49	.49			
	15-19	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	19-33	45-70	25-48	4-12	1.40-1.50	2-6	0.07-0.13	0.0-2.9	0.0-0.5	.32	.32			
	33-44	55-70	19-40	4-12	1.40-1.55	2-6	0.07-0.13	0.0-2.9	0.0-0.1	.28	.28			
	44-54	70-85	9-24	2-6	1.50-1.65	2-20	0.05-0.09	0.0-2.9	0.0-0.1	.32	.32			
	54-64	---	---	---	---	---	---	---	---	---	---			
Nakarna, dry--------	0-1	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	4	2	134
	1-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	2-6	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43			
	6-23	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	0.8-1.5	.55	.55			
	23-29	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	29-33	40-50	40-48	5-14	1.40-1.50	0.6-6	0.13-0.15	0.0-2.9	0.0-0.5	.28	.43			
	33-42	55-65	19-35	8-16	1.40-1.55	2-6	0.07-0.13	0.0-2.9	0.0-0.1	.24	.37			
	42-49	55-70	24-37	5-8	1.45-1.60	2-6	0.09-0.13	0.0-2.9	0.0-0.1	.43	.43			
	49-59	---	---	---	---	---	---	---	---	---	---			
Kruse----------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5061:														
Lakestarr	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
5062:														
Nakarna	0-1	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	4	2	134
	1-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-4	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43			
	4-15	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	0.8-1.5	.49	.49			
	15-19	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	19-33	45-70	25-48	4-12	1.40-1.50	2-6	0.07-0.13	0.0-2.9	0.0-0.5	.32	.32			
	33-44	55-70	19-40	4-12	1.40-1.55	2-6	0.07-0.13	0.0-2.9	0.0-0.1	.28	.28			
	44-54	70-85	9-24	2-6	1.50-1.65	2-20	0.05-0.09	0.0-2.9	0.0-0.1	.32	.32			
	54-64	---	---	---	---	---	---	---	---	---	---			
Bouldercreek	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5062:														
Kruse----------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Nakarna, dry--------	0-1	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	4	2	134
	1-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	2-6	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43			
	6-23	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	0.8-1.5	.55	.55			
	23-29	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	29-33	40-50	40-48	5-14	1.40-1.50	0.6-6	0.13-0.15	0.0-2.9	0.0-0.5	.28	.43			
	33-42	55-65	19-35	8-16	1.40-1.55	2-6	0.07-0.13	0.0-2.9	0.0-0.1	.24	.37			
	42-49	55-70	25-37	5-8	1.45-1.60	2-6	0.09-0.13	0.0-2.9	0.0-0.1	.43	.43			
	49-59	---	---	---	---	---	---	---	---	---	---			
Quinnamose----------	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
5067:														
Quinnamose----------	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5067:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
5068:														
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5068:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
5070:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5070:														
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Skalan	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5071:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5071:														
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5072:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5072:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Hardesty	0-4	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
5073:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5073:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
5074:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5074:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
5080:														
Vaywood	0-2	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	2-3	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-8	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	3.0-5.0	.43	.43			
	8-20	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	20-24	30-40	51-61	3-9	0.65-0.90	0.6-2	0.16-0.20	0.0-2.9	1.0-2.0	.37	.55			
	24-36	55-60	30-37	6-12	1.30-1.40	2-6	0.10-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-44	55-65	30-40	5-10	1.35-1.55	2-6	0.08-0.10	0.0-2.9	0.0-0.5	.02	.32			
	44-50	70-80	13-25	3-7	1.45-1.55	6-20	0.02-0.08	0.0-2.9	0.0-0.3	.05	.28			
	50-60	75-85	10-20	1-5	1.50-1.60	6-20	0.01-0.03	0.0-2.9	0.0-0.3	.02	.28			
Vay	0-2	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-6	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	18-22	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	1.0-2.0	.55	.55			
	22-30	55-60	30-37	6-12	1.30-1.40	2-6	0.10-0.12	0.0-2.9	0.5-1.0	.10	.37			
	30-42	55-65	30-40	5-10	1.35-1.55	2-6	0.08-0.10	0.0-2.9	0.0-0.5	.05	.43			
	42-52	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Brickel	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	2	3	86
	1-3	30-45	50-62	3-8	0.60-0.80	0.6-2	0.23-0.27	0.0-2.9	4.0-8.0	.24	.43			
	3-9	30-45	50-62	3-8	0.60-0.80	0.6-2	0.20-0.27	0.0-2.9	3.0-7.0	.20	.43			
	9-19	30-45	50-62	3-8	0.70-0.90	0.6-2	0.10-0.20	0.0-2.9	3.0-5.0	.17	.43			
	19-27	30-45	50-62	3-8	0.70-0.90	0.6-2	0.10-0.20	0.0-2.9	2.0-4.0	.17	.49			
	27-31	50-60	30-46	4-10	0.70-1.30	0.6-6	0.09-0.14	0.0-2.9	1.0-3.0	.15	.64			
	31-41	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5081:														
Vaywood	0-2	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	2	134
	2-3	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-8	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	3.0-5.0	.43	.43			
	8-20	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	20-24	30-40	51-61	3-9	0.65-0.90	0.6-2	0.16-0.20	0.0-2.9	1.0-2.0	.37	.55			
	24-36	55-60	30-37	6-12	1.30-1.40	2-6	0.10-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-44	55-65	30-40	5-10	1.35-1.55	2-6	0.08-0.10	0.0-2.9	0.0-0.5	.02	.32			
	44-50	70-80	13-25	3-7	1.45-1.55	6-20	0.02-0.08	0.0-2.9	0.0-0.3	.05	.28			
	50-60	75-85	10-20	1-5	1.50-1.60	6-20	0.01-0.03	0.0-2.9	0.0-0.3	.02	.28			
Bouldercreek	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Vay	0-2	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	3-9	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-6	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	18-22	30-40	51-61	3-9	0.65-0.90	0.6-2	0.20-0.23	0.0-2.9	1.0-2.0	.55	.55			
	22-30	55-60	30-37	6-12	1.30-1.40	2-6	0.10-0.12	0.0-2.9	0.5-1.0	.10	.37			
	30-42	55-65	30-40	5-10	1.35-1.55	2-6	0.08-0.10	0.0-2.9	0.0-0.5	.05	.43			
	42-52	---	---	---	---	---	---	---	---	---	---			
Brickel	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	2	3	86
	1-3	30-45	50-62	3-8	0.60-0.80	0.6-2	0.23-0.27	0.0-2.9	4.0-8.0	.24	.43			
	3-9	30-45	50-62	3-8	0.60-0.80	0.6-2	0.20-0.27	0.0-2.9	3.0-7.0	.20	.43			
	9-19	30-45	50-62	3-8	0.70-0.90	0.6-2	0.10-0.20	0.0-2.9	3.0-5.0	.17	.43			
	19-27	30-45	50-62	3-8	0.70-0.90	0.6-2	0.10-0.20	0.0-2.9	2.0-4.0	.17	.49			
	27-31	50-60	30-46	4-10	0.70-1.30	0.6-6	0.09-0.14	0.0-2.9	1.0-3.0	.15	.64			
	31-41	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5090:														
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Ardtoo	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Kellerbutte	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5091:														
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5091:														
Ardtoo	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Kellerbutte	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5092:														
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Ardtoo	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
5093:														
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5093:														
Ardtoo	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Boulderjud, dry	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5094:														
Blackprince	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5094:														
Ardtoo	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Boulderjud, dry	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5102:														
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Boulderjud, dry-----	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Jacot---------------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Ardtoo--------------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5102:														
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5103:														
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Boulderjud, dry	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Ardtoo	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5103:														
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5104:														
Boulderjud, dry-----	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Ardtoo--------------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5104:														
Jacot, dry----------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Blackprince---------	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5105:														
Boulderjud, dry-----	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Ardtoo--------------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5105:														
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Jacot, dry----------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Blackprince---------	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5110:														
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5111:														
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5111:														
Nakarna	0-1	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	4	2	134
	1-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-4	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43			
	4-15	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	0.8-1.5	.49	.49			
	15-19	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	19-33	45-70	25-48	4-12	1.40-1.50	2-6	0.07-0.13	0.0-2.9	0.0-0.5	.32	.32			
	33-44	55-70	19-40	4-12	1.40-1.55	2-6	0.07-0.13	0.0-2.9	0.0-0.1	.28	.28			
	44-54	70-85	9-24	2-6	1.50-1.65	2-20	0.05-0.09	0.0-2.9	0.0-0.1	.32	.32			
	54-64	---	---	---	---	---	---	---	---	---	---			
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Kellerbutte	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5112:														
Bouldercreek, dry	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-7	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	7-15	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	1.0-3.0	.55	.55			
	15-23	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-27	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	27-54	60-70	20-28	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	54-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5112:														
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Brevco--------------	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Jacot---------------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5113:														
Bouldercreek, dry---	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-7	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	7-15	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	1.0-3.0	.55	.55			
	15-23	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-27	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	27-54	60-70	20-28	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	54-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Brevco--------------	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Jacot---------------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5113:														
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5114:														
Bouldercreek	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Bouldercreek, dry	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-7	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	7-15	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	1.0-3.0	.55	.55			
	15-23	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-27	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	27-54	60-70	20-28	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	54-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5114:														
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
5120:														
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Jacot---------------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5120:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Nakarna	0-1	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	4	2	134
	1-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	3-4	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43			
	4-15	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.23	0.0-2.9	0.8-1.5	.49	.49			
	15-19	30-40	52-62	5-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	19-33	45-70	25-48	4-12	1.40-1.50	2-6	0.07-0.13	0.0-2.9	0.0-0.5	.32	.32			
	33-44	55-70	19-40	4-12	1.40-1.55	2-6	0.07-0.13	0.0-2.9	0.0-0.1	.28	.28			
	44-54	70-85	9-24	2-6	1.50-1.65	2-20	0.05-0.09	0.0-2.9	0.0-0.1	.32	.32			
	54-64	---	---	---	---	---	---	---	---	---	---			
Brevco	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5121:														
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Brevco--------------	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Ardtoo--------------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5122:														
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Brevco--------------	0-1	---	---	3-6	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-4	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-3.0	.15	.24			
	4-8	55-70	25-40	3-6	1.00-1.20	2-6	0.08-0.12	0.0-2.9	1.0-2.0	.15	.32			
	8-14	60-70	25-35	3-6	1.30-1.55	2-6	0.07-0.11	0.0-2.9	0.3-1.0	.15	.32			
	14-21	55-70	25-40	2-6	1.40-1.60	2-6	0.03-0.08	0.0-2.9	0.0-0.5	.10	.32			
	21-37	60-85	10-35	2-6	1.45-1.65	6-20	0.02-0.08	0.0-2.9	0.0-0.5	.10	.43			
	37-47	---	---	---	---	---	---	---	---	---	---			
Ardtoo--------------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5123:														
Kellerbutte---------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	1-2	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-5	20-30	62-72	4-8	0.75-0.85	0.6-2	0.20-0.24	0.0-2.9	2.0-4.0	.43	.43			
	5-11	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.55	.55			
	11-17	20-50	45-72	4-8	0.80-0.95	0.6-2	0.18-0.22	0.0-2.9	1.0-2.0	.32	.55			
	17-23	65-70	20-25	6-10	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.3-0.7	.10	.28			
	23-45	65-70	22-27	4-8	1.40-1.60	2-6	0.04-0.08	0.0-2.9	0.2-0.5	.10	.32			
	45-63	75-85	10-20	2-5	1.40-1.60	6-20	0.02-0.04	0.0-2.9	0.1-0.3	.05	.37			
	63-73	---	---	---	---	---	---	---	---	---	---			
Boulderjud, dry-----	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Blackprince---------	0-0.5	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	4	86
	0.5-1	---	---	6-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---			
	1-5	60-75	15-28	6-12	1.00-1.20	2-6	0.07-0.11	0.0-2.9	1.0-3.0	.10	.24			
	5-19	60-75	15-28	6-12	1.00-1.25	2-6	0.06-0.10	0.0-2.9	1.0-2.0	.10	.28			
	19-26	60-75	15-28	6-12	1.30-1.40	2-6	0.04-0.08	0.0-2.9	0.5-1.0	.10	.32			
	26-36	65-85	10-30	0-5	1.30-1.40	6-20	0.01-0.08	0.0-2.9	0.5-1.0	.10	.32			
	36-46	---	---	---	---	---	---	---	---	---	---			
Ardtoo--------------	0-1	---	---	4-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-4	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-3.0	.17	.28			
	4-7	50-70	22-45	4-8	1.10-1.20	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.20	.32			
	7-15	50-70	22-45	4-8	1.10-1.20	2-6	0.08-0.10	0.0-2.9	1.0-2.0	.15	.32			
	15-21	60-75	15-30	6-10	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	21-37	60-75	20-35	4-8	1.40-1.60	2-6	0.05-0.08	0.0-2.9	0.5-1.0	.10	.28			
	37-51	60-85	10-35	2-5	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.32			
	51-61	---	---	---	---	---	---	---	---	---	---			
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5123:														
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
5130:														
Brodeer	0-1	---	---	0-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-2	---	---	0-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-4	15-25	67-80	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	3.0-6.0	.37	.37			
	4-8	20-35	60-75	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	1.0-3.0	.55	.55			
	8-18	25-35	60-70	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	0.5-1.0	.64	.64			
	18-26	25-35	60-70	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	0.3-0.8	.64	.64			
	26-32	45-65	17-35	18-24	1.35-1.55	0.2-2	0.09-0.18	0.0-2.9	0.0-0.5	.20	.28			
	32-47	45-65	17-35	18-24	1.35-1.55	0.2-2	0.09-0.18	0.0-2.9	0.0-0.5	.28	.43			
	47-61	45-65	17-40	12-18	1.35-1.55	0.6-2	0.09-0.18	0.0-2.9	0.0-0.5	.15	.28			
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5130:														
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Lakestarr	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
5140:														
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Hysing, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-2	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	18-28	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	28-31	60-80	15-26	2-5	1.40-1.60	6-20	0.02-0.09	0.0-2.9	0.0-0.5	.17	.37			
	31-47	75-95	5-20	2-5	1.40-1.60	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	47-57	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5140:														
Brodeer	0-1	---	---	0-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-2	---	---	0-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-4	15-25	67-80	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	3.0-6.0	.37	.37			
	4-8	20-35	60-75	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	1.0-3.0	.55	.55			
	8-18	25-35	60-70	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	0.5-1.0	.64	.64			
	18-26	25-35	60-70	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	0.3-0.8	.64	.64			
	26-32	45-65	17-35	18-24	1.35-1.55	0.2-2	0.09-0.18	0.0-2.9	0.0-0.5	.20	.28			
	32-47	45-65	17-35	18-24	1.35-1.55	0.2-2	0.09-0.18	0.0-2.9	0.0-0.5	.28	.43			
	47-61	45-65	17-40	12-18	1.35-1.55	0.6-2	0.09-0.18	0.0-2.9	0.0-0.5	.15	.28			
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
5141:														
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5141:														
Hysing	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-2	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	18-28	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	28-31	60-80	15-26	2-5	1.40-1.60	6-20	0.02-0.09	0.0-2.9	0.0-0.5	.17	.37			
	31-47	75-95	5-20	2-5	1.40-1.60	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	47-57	---	---	---	---	---	---	---	---	---	---			
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Brodeer	0-1	---	---	0-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-2	---	---	0-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-4	15-25	67-80	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	3.0-6.0	.37	.37			
	4-8	20-35	60-75	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	1.0-3.0	.55	.55			
	8-18	25-35	60-70	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	0.5-1.0	.64	.64			
	18-26	25-35	60-70	4-8	0.65-0.85	0.6-2	0.19-0.22	0.0-2.9	0.3-0.8	.64	.64			
	26-32	45-65	17-35	18-24	1.35-1.55	0.2-2	0.09-0.18	0.0-2.9	0.0-0.5	.20	.28			
	32-47	45-65	17-35	18-24	1.35-1.55	0.2-2	0.09-0.18	0.0-2.9	0.0-0.5	.28	.43			
	47-61	45-65	17-40	12-18	1.35-1.55	0.6-2	0.09-0.18	0.0-2.9	0.0-0.5	.15	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5142:														
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Hysing	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-2	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	18-28	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	28-31	60-80	15-26	2-5	1.40-1.60	6-20	0.02-0.09	0.0-2.9	0.0-0.5	.17	.37			
	31-47	75-95	5-20	2-5	1.40-1.60	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	47-57	---	---	---	---	---	---	---	---	---	---			
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5142:														
Hysing, dry---------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-2	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	18-28	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	28-31	60-80	15-26	2-5	1.40-1.60	6-20	0.02-0.09	0.0-2.9	0.0-0.5	.17	.37			
	31-47	75-95	5-20	2-5	1.40-1.60	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	47-57	---	---	---	---	---	---	---	---	---	---			
5143:														
Jacot, dry----------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Hysing, dry---------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-2	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	18-28	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	28-31	60-80	15-26	2-5	1.40-1.60	6-20	0.02-0.09	0.0-2.9	0.0-0.5	.17	.37			
	31-47	75-95	5-20	2-5	1.40-1.60	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	47-57	---	---	---	---	---	---	---	---	---	---			
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5143:														
Jacot	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Boulderjud, dry	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
5144:														
Jacot, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
Hysing, dry	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-2	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	6-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	18-28	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	28-31	60-80	15-26	2-5	1.40-1.60	6-20	0.02-0.09	0.0-2.9	0.0-0.5	.17	.37			
	31-47	75-95	5-20	2-5	1.40-1.60	6-100	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
	47-57	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5144:														
Boulderjud----------	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
Boulderjud, dry-----	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-7	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	7-17	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	17-29	50-70	22-46	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	29-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.49			
	36-44	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.10	.37			
	44-54	---	---	---	---	---	---	---	---	---	---			
Jacot---------------	0-1	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	1-3	---	---	3-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	30-40	55-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.43	.43			
	10-18	30-50	45-65	3-8	0.65-0.85	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	18-24	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.8	.17	.28			
	24-39	50-70	20-35	8-15	1.40-1.60	0.6-6	0.07-0.15	0.0-2.9	0.3-0.5	.15	.28			
	39-50	65-75	20-30	3-5	1.40-1.60	6-20	0.04-0.11	0.0-2.9	0.0-0.2	.17	.32			
	50-59	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.20			
	59-62	75-85	10-20	3-5	1.40-1.60	6-20	0.02-0.05	0.0-2.9	0.0-0.2	.10	.17			
5211:														
Kruse---------------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5211:														
Keeler, dry---------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			
Micapeak----------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
5212:														
Kruse---------------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Keeler--------------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5212:														
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
5213:														
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Keeler, dry	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5213:														
Quinnamose	0-1	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-3	---	---	0-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-9	40-50	40-50	8-12	1.10-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.37	.37			
	9-12	50-60	30-40	8-14	1.20-1.30	0.6-2	0.11-0.17	0.0-2.9	1.0-2.0	.32	.32			
	12-31	50-60	30-40	8-18	1.30-1.50	0.6-2	0.11-0.16	0.0-2.9	0.5-1.0	.32	.32			
	31-51	50-60	30-40	8-18	1.40-1.60	0.6-2	0.09-0.16	0.0-2.9	0.3-0.5	.32	.32			
	51-58	50-65	30-40	5-10	1.40-1.60	0.6-2	0.04-0.15	0.0-2.9	0.3-0.5	.43	.43			
	58-68	---	---	---	---	---	---	---	---	---	---			
Boulderjud	0-1	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	1-2	---	---	2-6	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-6	25-30	64-70	2-6	0.65-0.90	1-2	0.18-0.25	0.0-2.9	3.0-6.0	.43	.43			
	6-16	25-30	64-70	2-6	0.65-1.00	1-2	0.18-0.25	0.0-2.9	1.0-2.0	.55	.55			
	16-26	50-70	22-42	4-8	1.30-1.65	2-6	0.06-0.15	0.0-2.9	0.1-0.5	.15	.43			
	26-36	60-80	14-34	2-6	1.30-1.65	2-6	0.04-0.08	0.0-2.9	0.1-0.5	.15	.37			
	36-56	75-85	10-20	2-5	1.30-1.70	6-20	0.02-0.04	0.0-2.9	0.1-0.2	.05	.24			
	56-66	---	---	---	---	---	---	---	---	---	---			
5310:														
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5310:														
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
5313:														
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Skalan	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5313:														
Lenz	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Clayton	0-5	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37	5	2	134
	5-8	55-70	25-35	4-10	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.37	.37			
	8-29	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	29-42	65-75	20-30	2-12	1.30-1.50	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.32	.32			
	42-52	75-85	5-15	2-12	1.30-1.50	0.6-2	0.06-0.11	0.0-2.9	0.0-0.5	.20	.20			
	52-62	75-95	5-22	0-3	1.35-1.60	2-6	0.06-0.11	0.0-2.9	0.0-0.5	.28	.28			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5314:														
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5314:														
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Lenz----------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-4	55-65	23-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	2.5-4.5	.05	.17			
	4-9	55-70	20-35	8-12	0.95-1.10	2-6	0.06-0.10	0.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-45	6-12	1.30-1.55	2-6	0.06-0.11	0.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	0.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-40	4-8	1.45-1.65	2-6	0.03-0.07	0.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Skalan----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Micapeak----------	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
5321:														
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5321:														
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Skalan	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Bong, moist	0-11	55-75	15-40	5-10	1.20-1.30	2-6	0.11-0.15	0.0-2.9	2.0-3.0	.20	.20	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Endoaquolls, deep	0-5	40-50	30-45	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	4	5	56
	5-11	20-65	25-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	25-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	25-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	15-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.49	.49			
	45-55	---	---	---	---	---	---	---	---	---	---			
5322:														
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5322:														
Skalan	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-9	40-50	40-45	10-16	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.28	.43			
	9-16	40-50	35-45	12-18	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	0.5-1.0	.20	.43			
	16-23	35-50	20-35	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.5	.15	.37			
	23-31	35-50	20-40	20-30	1.40-1.60	0.2-0.6	0.08-0.12	0.0-2.9	0.1-0.3	.10	.43			
	31-36	---	---	---	---	---	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
Spokane	0-1	---	---	7-11	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-4	40-50	40-50	7-11	1.10-1.30	0.6-2	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32			
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	0.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	0.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	0.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Endoaquolls, deep	0-5	40-50	30-45	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	4	5	56
	5-11	20-65	25-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	25-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	25-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	15-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.49	.49			
	45-55	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
5412:														
Keeler	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5412:														
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Santa	0-1	---	---	10-14	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-5	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	5-9	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	1.0-3.0	.49	.49			
	9-16	8-12	70-75	14-18	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.64	.64			
	16-25	4-8	74-78	14-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.64	.64			
	25-27	4-8	78-85	8-14	1.30-1.50	0.6-2	0.16-0.21	0.0-2.9	0.5-0.8	.64	.64			
	27-39	4-8	62-70	22-30	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.8	.55	.55			
	39-65	4-8	60-65	27-35	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.5	.49	.49			
Kronquist	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
Lakestarr	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5413:														
Keeler	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Bouldercreek, dry	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-7	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	7-15	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	1.0-3.0	.55	.55			
	15-23	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-27	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	27-54	60-70	20-28	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	54-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Lakestarr	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5414:														
Keeler	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Lakestarr	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Micapeak	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	60-90	---	---	3	5	56
	1-7	40-50	40-50	8-12	1.10-1.30	0.6-2	0.14-0.15	0.0-2.9	1.0-3.0	.28	.37			
	7-13	35-50	40-53	8-12	1.10-1.35	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.43			
	13-22	45-55	40-50	5-12	1.35-1.50	0.6-2	0.07-0.15	0.0-2.9	0.3-0.8	.28	.43			
	22-33	45-55	40-50	5-12	1.45-1.55	2-6	0.07-0.15	0.0-2.9	0.1-0.5	.32	.55			
	33-39	65-75	15-30	5-10	1.45-1.65	2-6	0.07-0.12	0.0-2.9	0.1-0.3	.24	.37			
	39-49	---	---	---	---	---	---	---	---	---	---			
Bouldercreek	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5512:														
Santa	0-8	5-15	70-80	10-18	1.00-1.30	0.6-6	0.20-0.25	0.0-2.9	1.7-8.5	.43	.43	4	4	86
	8-19	5-15	70-80	12-18	1.30-1.56	0.6-6	0.15-0.20	0.0-2.9	0.8-1.7	.55	.55			
	19-29	5-15	70-80	10-16	1.30-1.56	0.06-2	0.15-0.20	0.0-2.9	0.5-0.8	.64	.64			
	29-38	5-15	60-70	19-34	1.50-1.70	0.00-0.06	0.00-0.00	0.0-5.9	0.4-0.5	.55	.55			
	38-59	5-15	60-70	19-34	1.50-1.75	0.00-0.06	0.00-0.00	0.0-5.9	0.3-0.4	.55	.55			
Cavendish	0-8	---	---	8-15	0.70-0.95	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43	4	4	86
	8-30	---	---	19-28	1.30-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.0	.49	.49			
	30-43	---	---	20-28	1.25-1.40	0.2-0.6	0.13-0.19	3.0-5.9	0.0-0.5	.24	.55			
	43-59	---	---	---	---	---	---	---	---	---	---			
Crumarine	0-7	---	---	10-17	0.70-0.95	0.6-2	0.16-0.25	0.0-3.0	1.0-5.0	.43	.43	5	4	86
	7-24	---	---	8-21	1.15-1.65	0.2-0.6	0.11-0.25	0.0-3.0	1.0-2.0	.43	.43			
	24-47	---	---	5-20	1.15-1.65	0.2-0.6	0.11-0.25	0.0-3.0	1.0-2.0	.43	.43			
	47-59	---	---	2-15	1.15-2.00	0.6-6	0.01-0.21	0.0-3.0	1.0-2.0	.10	.20			
Reggear	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	28-95	---	---	4	4	86
	1-4	---	---	8-16	0.70-0.95	2-6	0.21-0.23	1.1-1.9	3.5-8.5	.43	.43			
	4-8	---	---	8-16	0.70-0.95	2-6	0.21-0.23	1.1-1.9	1.6-5.0	.55	.55			
	8-18	---	---	12-21	1.05-1.40	2-6	0.16-0.22	1.1-1.9	0.6-1.6	.49	.49			
	18-31	---	---	16-27	1.35-1.70	0.6-2	0.15-0.19	3.0-6.9	0.4-0.6	.55	.55			
	31-59	---	---	19-38	1.57-1.92	0.00-0.06	0.00-0.00	6.0-8.9	0.2-0.4	.55	.55			
Santa, dry	0-8	---	---	10-18	1.00-1.30	0.6-6	0.20-0.25	0.0-2.9	1.7-8.5	.43	.43	4	4	86
	8-19	---	---	12-18	1.30-1.56	0.6-6	0.15-0.20	0.0-2.9	0.8-1.7	.55	.55			
	19-29	---	65-80	10-16	1.30-1.56	0.06-2	0.15-0.20	0.0-2.9	0.5-0.8	.64	.64			
	29-38	---	---	19-34	1.50-1.70	0.00-0.06	0.00-0.00	0.0-5.9	0.4-0.5	.55	.55			
	38-59	---	---	19-34	1.50-1.75	0.00-0.06	0.00-0.00	0.0-5.9	0.3-0.4	.55	.55			
5513:														
Santa	0-1	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---	4	4	86
	1-5	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	5-9	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	1.0-3.0	.49	.49			
	9-16	8-12	70-75	14-18	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.64	.64			
	16-25	4-8	74-78	14-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.64	.64			
	25-27	4-8	78-85	8-14	1.30-1.50	0.6-2	0.16-0.21	0.0-2.9	0.5-0.8	.64	.64			
	27-39	4-8	62-70	22-30	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.8	.55	.55			
	39-65	4-8	60-65	27-35	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5513:														
Kruse	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	40-95	---	---	5	4	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Taney	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	65-95	---	---	4	4	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	1.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.55	.55			
	22-29	10-15	62-73	17-23	1.40-1.50	0.6-2	0.19-0.21	1.0-2.9	0.8-1.3	.55	.55			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	1.0-2.9	0.3-1.0	.64	.64			
	31-53	7-15	59-69	24-34	1.60-1.75	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
	53-59	7-15	59-65	24-38	1.50-1.70	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
5602:														
Lakestarr	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Santa	0-1	---	---	10-14	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-5	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	5-9	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	1.0-3.0	.49	.49			
	9-16	8-12	70-75	14-18	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.64	.64			
	16-25	4-8	74-78	14-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.64	.64			
	25-27	4-8	78-85	8-14	1.30-1.50	0.6-2	0.16-0.21	0.0-2.9	0.5-0.8	.64	.64			
	27-39	4-8	62-70	22-30	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.8	.55	.55			
	39-65	4-8	60-65	27-35	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5602:														
Keeler	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			
Lakestarr, dry	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Fluvaquents, frigid	0-1	55-65	20-30	5-15	1.20-1.50	2-6	0.10-0.13	0.0-2.9	0.5-1.5	.24	.24	5	3	86
	1-4	45-100	0-40	0-15	1.30-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.02	.02			
	4-12	55-100	10-45	0-15	1.20-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.37	.37			
	12-21	55-100	10-45	0-15	1.20-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.24	.24			
	21-31	55-100	10-45	0-15	1.20-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.37	.37			
	31-40	60-100	0-25	0-15	1.30-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.24	.24			
	40-60	60-100	0-25	0-15	1.30-1.60	2-100	0.02-0.15	0.0-2.9	0.0-0.5	.15	.15			
Lovell	0-2	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	2-8	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.3-3.0	.43	.43			
	8-19	5-25	50-80	15-25	1.20-1.40	0.6-2	0.21-0.23	3.0-5.9	1.0-1.8	.49	.49			
	19-24	5-25	50-80	15-25	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	24-30	5-20	50-75	18-30	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	30-42	5-20	50-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.8	.43	.43			
	42-52	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	52-61	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5603:														
Lakestarr	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Santa	0-1	---	---	10-14	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-5	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	5-9	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	1.0-3.0	.49	.49			
	9-16	8-12	70-75	14-18	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.64	.64			
	16-25	4-8	74-78	14-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.64	.64			
	25-27	4-8	78-85	8-14	1.30-1.50	0.6-2	0.16-0.21	0.0-2.9	0.5-0.8	.64	.64			
	27-39	4-8	62-70	22-30	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.8	.55	.55			
	39-65	4-8	60-65	27-35	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.5	.49	.49			
Keeler	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	5	56
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-4	40-50	40-48	8-12	1.00-1.20	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.37			
	4-9	40-50	40-46	10-14	1.10-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-2.0	.24	.37			
	9-16	40-55	25-40	15-20	1.30-1.50	0.6-6	0.08-0.17	0.0-2.9	0.3-0.8	.20	.37			
	16-30	60-70	10-20	18-23	1.40-1.60	0.2-2	0.07-0.13	0.0-2.9	0.3-0.5	.10	.24			
	30-50	55-65	15-20	18-25	1.40-1.60	0.2-2	0.07-0.17	0.0-2.9	0.3-0.5	.15	.28			
	50-60	60-70	15-25	10-18	1.40-1.60	0.6-2	0.04-0.13	0.0-2.9	0.0-0.5	.10	.28			
Kruse	0-1	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	5	4	86
	1-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	2-10	30-35	50-60	5-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	10-15	45-70	15-45	5-15	1.00-1.20	0.6-2	0.11-0.16	0.0-2.9	0.8-1.5	.28	.28			
	15-23	45-60	10-35	18-30	1.40-1.60	0.6-2	0.10-0.16	0.0-2.9	0.5-1.0	.15	.24			
	23-32	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	32-46	35-60	10-35	18-30	1.40-1.60	0.2-0.6	0.12-0.19	0.0-2.9	0.0-0.5	.15	.24			
	46-52	50-70	15-35	10-30	1.50-1.60	2-6	0.07-0.15	0.0-2.9	0.0-0.3	.15	.24			
	52-61	60-70	20-30	5-12	1.50-1.60	2-6	0.07-0.13	0.0-2.9	0.0-0.3	.17	.28			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
5603:														
Bouldercreek--------	0-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	2	134
	2-3	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-9	25-30	62-70	3-8	0.65-0.90	1-2	0.18-0.23	0.0-2.9	3.0-6.0	.43	.43			
	9-19	25-30	62-70	3-8	0.65-1.00	1-2	0.18-0.23	0.0-2.9	1.0-3.0	.55	.55			
	19-25	25-30	62-70	3-8	0.65-1.00	1-2	0.16-0.21	0.0-2.9	0.5-1.0	.55	.55			
	25-33	50-70	20-36	10-14	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.5	.10	.24			
	33-50	50-70	20-38	8-12	1.35-1.65	2-6	0.06-0.11	0.0-2.9	0.1-0.3	.05	.24			
	50-63	60-80	12-32	3-8	1.40-1.65	2-20	0.03-0.05	0.0-2.9	0.1-0.1	.05	.28			
Lakestarr, dry------	0-2	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	2	134
	2-3	---	---	5-8	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	3-10	25-32	60-70	5-8	0.85-0.95	0.6-2	0.26-0.30	0.0-2.9	2.0-4.0	.49	.49			
	10-15	25-39	49-63	8-12	0.85-0.95	0.6-2	0.24-0.28	0.0-2.9	1.0-2.0	.49	.49			
	15-24	25-35	45-56	18-22	1.30-1.50	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.49	.49			
	24-39	30-45	35-52	18-20	1.40-1.55	0.6-2	0.16-0.21	3.0-5.9	0.3-0.8	.49	.49			
	39-47	40-50	25-40	20-30	1.55-1.70	0.00-0.06	0.08-0.12	3.0-5.9	0.3-0.5	.43	.43			
	47-55	40-55	25-40	20-24	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.43	.43			
	55-65	55-65	10-25	18-30	1.70-2.00	0.00- 0.00	0.04-0.08	3.0-5.9	0.3-0.5	.28	.28			
Taney---------------	0-1	---	---	5-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.00-0.00	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	1.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.55	.55			
	22-29	10-15	62-73	17-23	1.40-1.50	0.6-2	0.19-0.21	1.0-2.9	0.8-1.3	.55	.55			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	1.0-2.9	0.3-1.0	.64	.64			
	31-53	7-15	59-69	24-34	1.60-1.75	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
	53-60	7-15	59-65	24-38	1.50-1.70	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
6001:														
Athena--------------	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Broadax-------------	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6001:														
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Mondovi	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
6002:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6002:														
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
Mondovi	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			
6003:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6003:														
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Mondovi	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6004:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6010:														
Freeman	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Carlinton, dry	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	1.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	1.0-2.9	1.0-3.0	.55	.55			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	1.0-2.9	0.8-1.3	.64	.64			
	20-23	8-13	72-78	9-16	1.40-1.55	0.6-2	0.19-0.21	1.0-2.9	0.5-1.0	.64	.64			
	23-30	7-12	62-70	20-32	1.50-1.65	0.06-0.2	0.14-0.18	1.0-2.9	0.3-0.8	.55	.55			
	30-53	7-12	60-67	24-36	1.60-1.70	0.00-0.06	0.02-0.03	1.0-2.9	0.3-0.8	.49	.49			
	53-60	7-12	58-65	24-34	1.50-1.65	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
Santa	0-1	---	---	10-14	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-5	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	5-9	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	1.0-3.0	.49	.49			
	9-16	8-12	70-75	14-18	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.64	.64			
	16-25	4-8	74-78	14-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.64	.64			
	25-27	4-8	78-85	8-14	1.30-1.50	0.6-2	0.16-0.21	0.0-2.9	0.5-0.8	.64	.64			
	27-39	4-8	62-70	22-30	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.8	.55	.55			
	39-65	4-8	60-65	27-35	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6010:														
Lovell----------	0-2	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	2-8	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.3-3.0	.43	.43			
	8-19	5-25	50-80	15-25	1.20-1.40	0.6-2	0.21-0.23	3.0-5.9	1.0-1.8	.49	.49			
	19-24	5-25	50-80	15-25	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	24-30	5-20	50-75	18-30	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	30-42	5-20	50-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.8	.43	.43			
	42-52	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	52-61	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Aquepts, frigid-----	0-4	45-50	40-45	8-12	1.10-1.30	0.6-2	0.15-0.20	0.0-2.9	3.0-4.0	.37	.37	3	4	86
	4-12	45-65	25-45	8-12	1.10-1.30	0.6-2	0.12-0.20	0.0-2.9	3.0-4.0	.37	.37			
	12-17	45-65	25-45	8-12	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.43	.43			
	17-27	45-70	20-45	8-12	1.20-1.40	0.6-2	0.10-0.18	0.0-2.9	0.8-1.3	.32	.32			
	27-40	75-95	0-20	0-5	1.55-1.75	6-100	0.02-0.08	0.0-2.9	0.8-1.3	.24	.24			
	40-50	80-95	0-20	0-5	1.45-1.65	6-100	0.02-0.08	0.0-2.9	0.8-1.3	.02	.05			
	50-60	80-95	0-20	0-5	1.45-1.65	6-100	0.02-0.08	0.0-2.9	0.8-1.3	.02	.02			
6011:														
Freeman----------	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Carlinton, dry------	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	1.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	1.0-2.9	1.0-3.0	.55	.55			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	1.0-2.9	0.8-1.3	.64	.64			
	20-23	8-13	72-78	9-16	1.40-1.55	0.6-2	0.19-0.21	1.0-2.9	0.5-1.0	.64	.64			
	23-30	7-12	62-70	20-32	1.50-1.65	0.06-0.2	0.14-0.18	1.0-2.9	0.3-0.8	.55	.55			
	30-53	7-12	60-67	24-36	1.60-1.70	0.00-0.06	0.02-0.03	1.0-2.9	0.3-0.8	.49	.49			
	53-60	7-12	58-65	24-34	1.50-1.65	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
Driscoll----------	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6011:														
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Lovell	0-2	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	2-8	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.3-3.0	.43	.43			
	8-19	5-25	50-80	15-25	1.20-1.40	0.6-2	0.21-0.23	3.0-5.9	1.0-1.8	.49	.49			
	19-24	5-25	50-80	15-25	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	24-30	5-20	50-75	18-30	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	30-42	5-20	50-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.8	.43	.43			
	42-52	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	52-61	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Endoaquolls	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
6012:														
Freeman	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Carlinton, dry	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	1.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	1.0-2.9	1.0-3.0	.55	.55			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	1.0-2.9	0.8-1.3	.64	.64			
	20-23	8-13	72-78	9-16	1.40-1.55	0.6-2	0.19-0.21	1.0-2.9	0.5-1.0	.64	.64			
	23-30	7-12	62-70	20-32	1.50-1.65	0.06-0.2	0.14-0.18	1.0-2.9	0.3-0.8	.55	.55			
	30-53	7-12	60-67	24-36	1.60-1.70	0.00-0.06	0.02-0.03	1.0-2.9	0.3-0.8	.49	.49			
	53-60	7-12	58-65	24-34	1.50-1.65	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6012:														
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Taney	0-1	---	---	5-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.00-0.00	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	1.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	1.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	1.0-2.9	1.0-2.0	.55	.55			
	22-29	10-15	62-73	17-23	1.40-1.50	0.6-2	0.19-0.21	1.0-2.9	0.8-1.3	.55	.55			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	1.0-2.9	0.3-1.0	.64	.64			
	31-53	7-15	59-69	24-34	1.60-1.75	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
	53-60	7-15	59-65	24-38	1.50-1.70	0.00-0.06	0.02-0.03	1.0-2.9	0.1-0.5	.55	.55			
Lovell	0-2	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	2-8	5-25	50-75	20-27	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	1.3-3.0	.43	.43			
	8-19	5-25	50-80	15-25	1.20-1.40	0.6-2	0.21-0.23	3.0-5.9	1.0-1.8	.49	.49			
	19-24	5-25	50-80	15-25	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	24-30	5-20	50-75	18-30	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	30-42	5-20	50-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.8	.43	.43			
	42-52	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	52-61	5-40	40-75	18-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Santa	0-1	---	---	10-14	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	4	4	86
	1-5	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.49	.49			
	5-9	8-12	74-78	10-14	1.10-1.30	0.6-2	0.20-0.23	0.0-2.9	1.0-3.0	.49	.49			
	9-16	8-12	70-75	14-18	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.64	.64			
	16-25	4-8	74-78	14-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.64	.64			
	25-27	4-8	78-85	8-14	1.30-1.50	0.6-2	0.16-0.21	0.0-2.9	0.5-0.8	.64	.64			
	27-39	4-8	62-70	22-30	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.8	.55	.55			
	39-65	4-8	60-65	27-35	1.65-1.75	0.00-0.06	0.01-0.05	3.0-5.9	0.3-0.5	.49	.49			
6021:														
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6021:														
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
6031:														
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6031:														
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
6040:														
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Freeman	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6040:														
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Southwick	0-6	8-10	70-74	18-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-5.0	.37	.37	4	5	56
	6-14	8-10	70-74	18-22	1.15-1.35	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	14-22	8-10	70-75	16-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	22-27	8-10	72-75	15-18	1.25-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	27-32	8-10	75-80	10-15	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	32-36	3-7	61-70	24-32	1.45-1.60	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	36-48	3-7	61-70	24-32	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	48-60	3-7	63-70	24-30	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
6041:														
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Southwick	0-6	8-10	70-74	18-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-5.0	.37	.37	4	5	56
	6-14	8-10	70-74	18-22	1.15-1.35	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	14-22	8-10	70-75	16-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	22-27	8-10	72-75	15-18	1.25-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	27-32	8-10	75-80	10-15	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	32-36	3-7	61-70	24-32	1.45-1.60	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	36-48	3-7	61-70	24-32	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	48-60	3-7	63-70	24-30	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6041:														
Freeman	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Endoaquolls	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6042:														
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Southwick	0-6	8-10	70-74	18-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-5.0	.37	.37	4	5	56
	6-14	8-10	70-74	18-22	1.15-1.35	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	14-22	8-10	70-75	16-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	22-27	8-10	72-75	15-18	1.25-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	27-32	8-10	75-80	10-15	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	32-36	3-7	61-70	24-32	1.45-1.60	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	36-48	3-7	61-70	24-32	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	48-60	3-7	63-70	24-30	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Freeman	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Gibbs	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-5	10-20	62-72	12-18	1.15-1.25	0.6-2	0.19-0.21	0.0-3.0	2.0-4.0	.49	.49			
	5-13	15-35	45-69	16-22	1.15-1.35	0.6-2	0.16-0.21	0.0-3.0	1.5-2.5	.49	.49			
	13-20	15-35	35-65	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.8-1.5	.43	.43			
	20-31	15-35	35-60	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.5-1.0	.43	.43			
	31-35	15-35	40-60	20-30	1.45-1.55	0.2-1	0.09-0.12	0.0-3.0	0.3-0.8	.15	.49			
	35-45	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6042:														
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
6043:														
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Southwick	0-6	8-10	70-74	18-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-5.0	.37	.37	4	5	56
	6-14	8-10	70-74	18-22	1.15-1.35	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	14-22	8-10	70-75	16-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	22-27	8-10	72-75	15-18	1.25-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	27-32	8-10	75-80	10-15	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	32-36	3-7	61-70	24-32	1.45-1.60	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	36-48	3-7	61-70	24-32	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	48-60	3-7	63-70	24-30	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6043:														
Caldwell----------	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Freeman----------	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Glenrose----------	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
6045:														
Southwick----------	0-6	8-10	70-74	18-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-5.0	.37	.37	4	5	56
	6-14	8-10	70-74	18-22	1.15-1.35	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	14-22	8-10	70-75	16-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	22-27	8-10	72-75	15-18	1.25-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	27-32	8-10	75-80	10-15	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	32-36	3-7	61-70	24-32	1.45-1.60	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	36-48	3-7	61-70	24-32	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	48-60	3-7	63-70	24-30	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
Larkin----------	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6045:														
Driscoll----------	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Freeman----------	0-2	8-10	72-75	15-18	1.20-1.40	0.6-2	0.23-0.25	0.0-2.9	2.0-3.0	.49	.49	5	4	86
	2-9	8-10	72-75	15-18	1.00-1.45	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.49	.49			
	9-15	8-10	75-78	12-17	1.35-1.50	0.6-2	0.21-0.23	0.0-2.9	0.5-1.0	.55	.55			
	15-21	8-10	75-78	12-16	1.35-1.55	0.6-2	0.21-0.23	0.0-2.9	0.3-0.8	.64	.64			
	21-29	4-8	60-70	22-35	1.35-1.55	0.2-2	0.15-0.20	3.0-5.9	0.2-0.4	.49	.49			
	29-39	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	39-53	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
	53-62	4-8	55-65	27-45	1.35-1.55	0.2-0.6	0.15-0.20	3.0-5.9	0.2-0.4	.43	.43			
Glenrose----------	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Caldwell----------	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
6050:														
Tilma----------	0-8	9-12	68-75	15-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.28	.28	4	5	56
	8-14	9-12	68-75	15-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-20	9-12	70-75	15-18	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	20-23	9-12	70-75	13-18	1.20-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	23-30	8-10	45-55	35-45	1.35-1.45	0.06-0.2	0.15-0.19	3.0-5.9	0.3-0.5	.37	.37			
	30-34	6-8	47-55	37-45	1.35-1.45	0.06-0.2	0.15-0.19	3.0-5.9	0.3-0.5	.37	.37			
	34-42	6-8	50-60	32-45	1.35-1.45	0.06-0.2	0.15-0.19	3.0-5.9	0.3-0.5	.37	.37			
	42-60	8-10	65-74	18-30	1.40-1.50	0.2-0.6	0.17-0.19	3.0-5.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6050:														
Latah	0-10	8-12	66-75	14-22	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.43	.43	4	5	56
	10-14	8-12	66-75	14-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	8-12	70-80	12-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.64	.64			
	19-22	8-12	76-80	8-12	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.64	.64			
	22-31	6-8	52-60	35-40	1.30-1.50	0.00-0.06	0.15-0.19	3.0-5.9	0.3-1.0	.43	.43			
	31-38	5-8	50-60	35-45	1.30-1.50	0.00-0.06	0.15-0.19	6.0-8.9	0.3-0.8	.43	.43			
	38-60	5-8	50-65	30-45	1.30-1.50	0.06-0.2	0.15-0.19	6.0-8.9	0.3-0.5	.43	.43			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6061:														
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6061:														
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
6062:														
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6062:														
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
6064:														
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6064:														
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
6067:														
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6067:														
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6068:														
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Staley	0-7	10-15	65-75	15-20	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	1.5-3.0	.49	.49	5	5	56
	7-12	10-15	65-72	18-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43			
	12-23	10-15	65-72	18-20	1.15-1.35	0.6-2	0.18-0.20	0.0-2.9	0.3-0.8	.49	.49			
	23-37	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			
	37-60	10-15	65-75	15-22	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6072:														
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
6073:														
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6073:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Mondovi	0-17	10-20	60-75	12-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37	5	5	56
	17-26	10-20	60-75	12-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-7.0	.43	.43			
	26-38	10-20	65-75	8-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	38-48	10-20	65-79	6-18	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-7.0	.49	.49			
	48-60	10-20	65-79	5-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-6.0	.55	.55			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
6074:														
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6074:														
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
6080:														
Nez Perce	0-6	8-15	70-75	10-20	1.10-1.30	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.49	.49	3	4	86
	6-10	8-15	70-75	10-20	1.15-1.35	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.55	.55			
	10-19	8-12	70-75	13-18	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-30	5-10	45-55	35-55	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.8	.28	.28			
	30-42	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.28	.28			
	42-60	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.32	.32			
Brincken, moist	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Uhlig	0-4	20-40	50-65	5-18	1.15-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
6093:														
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6093:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
6094:														
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6094:														
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
6096:														
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6096:														
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
6110:														
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6110:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
6111:														
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6111:														
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Hanning	0-9	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43	5	5	56
	9-17	3-25	57-80	10-18	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	17-24	3-25	55-80	14-20	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49			
	24-35	3-20	55-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	35-45	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
	45-63	3-20	55-75	18-27	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6112:														
Broadax	0-7	10-25	50-75	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	5	56
	7-15	10-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	15-28	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
	28-33	5-20	45-75	18-35	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.55	.55			
	33-60	5-30	50-75	12-24	1.20-1.40	0.6-2	0.17-0.21	0.0-2.9	0.3-0.5	.55	.55			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Lance	0-9	10-15	61-70	18-24	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.43	.43	5	6	48
	9-14	10-15	63-70	18-22	1.25-1.45	0.6-2	0.06-0.16	0.0-2.9	0.3-0.8	.55	.55			
	14-22	10-20	60-70	18-22	1.30-1.50	0.2-0.6	0.10-0.16	0.0-2.9	0.3-0.5	.55	.55			
	22-40	10-20	60-70	18-20	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.55	.55			
	40-60	10-20	65-75	10-15	1.30-1.50	0.2-0.6	0.12-0.21	0.0-2.9	0.3-0.5	.64	.64			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6130:														
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6131:														
Thatuna	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.55	.55			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Naff	0-8	5-15	61-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	8-17	5-15	60-75	20-26	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	17-26	5-15	55-75	20-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.3-1.3	.49	.49			
	26-61	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
	61-80	5-15	50-65	25-35	1.30-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Garfield	0-5	5-20	55-80	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	55-80	15-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.43	.43			
	45-60	2-10	50-75	20-40	1.25-1.45	0.2-0.6	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Caldwell	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	10-16	5-25	55-75	15-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	1.0-3.0	.49	.49			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.0	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.2-0.6	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6131:														
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
6140:														
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Southwick	0-6	8-10	70-74	18-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-5.0	.37	.37	4	5	56
	6-14	8-10	70-74	18-22	1.15-1.35	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	14-22	8-10	70-75	16-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	22-27	8-10	72-75	15-18	1.25-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	27-32	8-10	75-80	10-15	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	32-36	3-7	61-70	24-32	1.45-1.60	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	36-48	3-7	61-70	24-32	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	48-60	3-7	63-70	24-30	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	0.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	0.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	0.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	0.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6140:														
Gibbs	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-5	10-20	62-72	12-18	1.15-1.25	0.6-2	0.19-0.21	0.0-3.0	2.0-4.0	.49	.49			
	5-13	15-35	45-69	16-22	1.15-1.35	0.6-2	0.16-0.21	0.0-3.0	1.5-2.5	.49	.49			
	13-20	15-35	35-65	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.8-1.5	.43	.43			
	20-31	15-35	35-60	18-30	1.35-1.45	0.2-0.6	0.16-0.21	3.0-6.0	0.5-1.0	.43	.43			
	31-35	15-35	40-60	20-30	1.45-1.55	0.2-1	0.09-0.12	0.0-3.0	0.3-0.8	.15	.49			
	35-45	---	---	---	---	---	---	---	---	---	---			
6141:														
Driscoll	0-3	10-15	65-70	16-20	1.15-1.30	0.6-2	0.21-0.23	0.0-2.9	3.5-5.5	.32	.32	4	6	48
	3-10	10-15	65-70	16-20	1.20-1.40	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	10-26	10-15	63-70	17-22	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	26-27	8-12	70-80	10-20	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	27-37	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.8	.37	.37			
	37-45	4-8	50-60	35-45	1.35-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.3-0.5	.43	.43			
	45-50	4-10	50-65	30-40	1.40-1.50	0.06-0.2	0.12-0.17	6.0-8.9	0.2-0.3	.49	.49			
	50-60	4-10	52-65	28-38	1.40-1.55	0.2-0.6	0.12-0.17	6.0-8.9	0.1-0.2	.49	.49			
Larkin	0-4	10-14	66-74	16-20	1.15-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43	5	5	56
	4-9	10-14	66-74	16-20	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-3.5	.43	.43			
	9-14	10-14	65-74	16-22	1.25-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	14-19	6-10	60-70	22-30	1.35-1.50	0.2-2	0.17-0.20	3.0-5.9	0.3-0.8	.49	.49			
	19-34	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.49	.49			
	34-64	4-8	57-74	22-35	1.35-1.50	0.2-0.6	0.16-0.18	3.0-5.9	0.3-0.5	.43	.43			
Southwick	0-6	8-10	70-74	18-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	3.0-5.0	.37	.37	4	5	56
	6-14	8-10	70-74	18-22	1.15-1.35	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43			
	14-22	8-10	70-75	16-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	22-27	8-10	72-75	15-18	1.25-1.45	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.55	.55			
	27-32	8-10	75-80	10-15	1.35-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.64	.64			
	32-36	3-7	61-70	24-32	1.45-1.60	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	36-48	3-7	61-70	24-32	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
	48-60	3-7	63-70	24-30	1.45-1.55	0.06-0.2	0.17-0.19	3.0-5.9	0.3-0.5	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-4.0	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	55-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-4.0	3.0-7.0	.37	.37			
	13-17	5-20	55-80	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.0	2.0-6.0	.43	.43			
	17-25	5-55	30-80	15-27	1.15-1.40	0.6-2	0.19-0.21	3.0-5.0	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.2-0.6	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.2-0.6	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6141:														
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Latah	0-10	8-12	66-75	14-22	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.43	.43	4	5	56
	10-14	8-12	66-75	14-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	8-12	70-80	12-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.64	.64			
	19-22	8-12	76-80	8-12	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.64	.64			
	22-31	6-8	52-60	35-40	1.30-1.50	0.00-0.06	0.15-0.19	3.0-5.9	0.3-1.0	.43	.43			
	31-38	5-8	50-60	35-45	1.30-1.50	0.00-0.06	0.15-0.19	6.0-8.9	0.3-0.8	.43	.43			
	38-60	5-8	50-65	30-45	1.30-1.50	0.06-0.2	0.15-0.19	6.0-8.9	0.3-0.5	.43	.43			
6200:														
Morical	0-6	5-25	55-80	15-25	1.00-1.20	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.43	.43	3	5	56
	6-12	10-45	35-75	15-25	1.10-1.30	0.6-2	0.18-0.23	3.0-5.9	1.0-3.0	.43	.43			
	12-18	10-45	30-70	18-35	1.15-1.35	0.6-2	0.15-0.21	3.0-5.9	0.3-0.5	.49	.49			
	18-27	35-65	5-45	18-35	1.15-1.35	0.6-2	0.06-0.16	0.0-2.9	0.3-0.5	.32	.32			
	27-37	---	---	---	---	---	---	---	---	---	---			
Glenrose	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Kramerhill	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
Reardan	0-10	10-15	60-70	15-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.49	.49	3	5	56
	10-15	10-15	60-70	15-25	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.55	.55			
	15-18	10-20	60-70	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.55	.55			
	18-31	8-16	39-50	35-45	1.30-1.50	0.06-0.2	0.14-0.18	6.0-8.9	0.3-0.5	.37	.37			
	31-37	8-16	39-55	35-45	1.30-1.50	0.06-0.2	0.15-0.18	6.0-8.9	0.3-0.5	.37	.37			
	37-60	8-15	60-70	15-30	1.35-1.55	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6200:														
Swakane	0-1	---	---	7-15	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	1	5	56
	1-3	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43			
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
6201:														
Morical	0-6	5-25	55-80	15-25	1.00-1.20	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.43	.43	3	5	56
	6-12	10-45	35-75	15-25	1.10-1.30	0.6-2	0.18-0.23	3.0-5.9	1.0-3.0	.43	.43			
	12-18	10-45	30-70	18-35	1.15-1.35	0.6-2	0.15-0.21	3.0-5.9	0.3-0.5	.49	.49			
	18-27	35-65	5-45	18-35	1.15-1.35	0.6-2	0.06-0.16	0.0-2.9	0.3-0.5	.32	.32			
	27-37	---	---	---	---	---	---	---	---	---	---			
Athena	0-4	10-30	50-68	16-22	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-8	10-30	50-68	16-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.5-3.5	.43	.43			
	8-13	10-30	50-70	16-22	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.8-2.3	.43	.43			
	13-26	5-30	46-75	17-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.49	.49			
	26-42	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	42-54	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.8	.49	.49			
	54-60	5-25	50-75	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
Dearyton	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
6201:														
Glenrose----------	0-8	10-15	67-75	14-18	1.15-1.35	0.6-2	0.18-0.21	0.0-2.9	2.5-4.5	.43	.43	5	4	86
	8-14	10-35	47-75	14-18	1.20-1.35	0.6-2	0.18-0.21	0.0-2.9	2.0-4.0	.49	.49			
	14-19	15-35	45-65	16-20	1.25-1.45	0.6-2	0.16-0.19	0.0-2.9	1.0-2.0	.49	.49			
	19-24	15-35	45-55	18-30	1.25-1.45	0.2-0.6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43			
	24-32	15-35	37-57	22-28	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.8	.43	.43			
	32-41	25-35	40-45	22-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.6	.37	.37			
	41-60	20-35	31-50	28-34	1.35-1.55	0.2-0.6	0.14-0.19	0.0-2.9	0.3-0.5	.37	.37			
Kramerhill----------	0-1	---	---	10-16	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	4	4	86
	1-5	40-48	40-50	10-16	1.15-1.25	0.6-2	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43			
	5-9	40-48	40-50	10-16	1.25-1.35	0.6-2	0.16-0.18	0.0-2.9	1.0-2.0	.43	.43			
	9-19	38-50	35-50	12-18	1.40-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-0.8	.24	.43			
	19-30	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.17	3.0-5.9	0.1-0.5	.17	.28			
	30-46	40-60	15-40	20-34	1.40-1.60	0.2-0.6	0.11-0.16	3.0-5.9	0.1-0.3	.17	.32			
	46-56	---	---	---	---	---	---	---	---	---	---			
7090:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lenz, disturbed-----	0-4	55-65	23-37	8-12	1.20-1.38	0.6-2	0.06-0.10	1.0-2.9	2.5-4.5	.05	.20	2	5	56
	4-9	55-70	18-37	8-12	0.95-1.10	2-6	0.06-0.10	1.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-49	6-12	1.30-1.55	2-6	0.06-0.11	1.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	1.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-41	4-8	1.45-1.65	2-6	0.03-0.07	1.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Spokane, disturbed--	0-4	40-50	40-50	7-11	1.38-1.63	0.2-0.6	0.16-0.18	1.0-2.9	2.0-4.0	.32	.32	3	4	86
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	1.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	1.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	1.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Swakane, disturbed--	0-3	45-50	40-48	7-15	1.38-1.50	0.2-0.6	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43	1	5	56
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7091:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lenz, disturbed	0-4	55-65	23-37	8-12	1.20-1.38	0.6-2	0.06-0.10	1.0-2.9	2.5-4.5	.05	.20	2	5	56
	4-9	55-70	18-37	8-12	0.95-1.10	2-6	0.06-0.10	1.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-49	6-12	1.30-1.55	2-6	0.06-0.11	1.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	1.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-41	4-8	1.45-1.65	2-6	0.03-0.07	1.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Spokane, disturbed	0-4	40-50	40-50	7-11	1.38-1.63	0.2-0.6	0.16-0.18	1.0-2.9	2.0-4.0	.32	.32	3	4	86
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	1.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	1.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	1.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Swakane, disturbed	0-3	45-50	40-48	7-15	1.38-1.50	0.2-0.6	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43	1	5	56
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
7101:														
Pits	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dumps	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7102:														
Riverwash	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
7103:														
Xerolls, warm, mass wasted	0-4	10-30	55-70	10-27	1.05-1.25	0.6-2	0.20-0.22	0.0-5.9	3.0-5.0	.37	.37	2	6	48
	4-9	10-45	40-70	10-27	1.00-1.40	0.6-2	0.16-0.22	0.0-5.9	2.0-4.0	.37	.37			
	9-16	10-65	15-65	18-40	1.20-1.40	0.2-0.6	0.12-0.20	3.0-5.9	1.0-2.0	.43	.43			
	16-24	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.5	.24	.24			
	24-60	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.3	.24	.24			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7103:														
Bobbitt	0-1	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	5	56
	1-2	---	---	0-25	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---			
	2-6	35-50	25-55	10-20	1.30-1.50	0.6-2	0.12-0.15	0.0-2.9	1.0-3.0	.20	.37			
	6-16	20-45	30-70	10-20	1.30-1.50	0.6-2	0.07-0.09	0.0-2.9	1.0-3.0	.10	.37			
	16-33	20-45	31-56	18-24	1.50-1.65	0.2-0.6	0.04-0.05	0.0-2.9	0.5-1.0	.05	.37			
	33-38	30-40	30-45	24-30	1.50-1.65	0.2-0.6	0.03-0.04	0.0-2.9	0.5-1.0	.05	.37			
	38-48	---	---	---	---	---	---	---	---	---	---			
Brincken, moist, mass wasted	0-7	10-35	50-75	10-20	1.10-1.30	0.6-2	0.21-0.23	1.0-2.9	2.0-4.0	.37	.37	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	1.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	1.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	1.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	1.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Dearyton	0-1	---	---	12-18	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	3	4	86
	1-6	10-35	50-75	12-18	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	6-12	10-45	35-75	12-20	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	12-18	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	18-28	5-40	10-60	35-50	1.15-1.40	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	28-38	5-40	10-60	35-50	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	38-55	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32			
	55-60	5-40	15-60	32-45	1.20-1.45	0.06-0.2	0.14-0.18	6.0-8.9	0.5-1.0	.17	.32			
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Speigle, mass wasted	0-6	40-50	40-45	10-15	1.15-1.25	0.6-2	0.14-0.16	1.0-2.9	2.0-3.0	.15	.32	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	1.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	1.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	1.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	1.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	1.0-2.9	0.0-0.3	.02	.32			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7104:														
Xerolls, cool, mass wasted	0-4	10-30	55-70	10-27	1.05-1.25	0.6-2	0.20-0.22	0.0-5.9	3.0-5.0	.37	.37	2	6	48
	4-9	10-45	40-70	10-27	1.00-1.40	0.6-2	0.16-0.22	0.0-5.9	2.0-4.0	.37	.37			
	9-16	10-65	15-65	18-40	1.20-1.40	0.2-0.6	0.12-0.20	3.0-5.9	1.0-2.0	.43	.43			
	16-24	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.5	.24	.24			
	24-60	45-85	5-45	0-12	1.40-1.70	2-20	0.04-0.16	0.0-2.9	0.0-0.3	.24	.24			
Fan Lake	0-4	48-55	35-48	3-10	0.60-0.85	0.6-2	0.23-0.25	0.0-2.9	2.0-3.5	.49	.49	4	2	134
	4-8	40-50	45-55	3-10	0.80-1.00	0.6-2	0.23-0.25	0.0-2.9	1.0-3.0	.55	.55			
	8-16	55-60	35-40	3-10	1.15-1.35	2-6	0.19-0.23	0.0-2.9	1.0-2.0	.43	.43			
	16-24	50-60	32-42	3-8	1.30-1.50	0.6-6	0.10-0.19	0.0-2.9	0.3-0.8	.49	.49			
	24-36	35-55	35-40	10-25	1.30-1.50	0.6-2	0.11-0.19	3.0-4.5	0.3-0.5	.43	.43			
	36-51	15-40	25-55	18-35	1.45-1.65	0.2-0.6	0.16-0.21	3.0-4.5	0.3-0.5	.37	.37			
	51-57	55-90	5-35	3-10	1.30-1.50	2-20	0.05-0.17	0.0-2.9	0.1-0.3	.49	.49			
	57-60	15-60	20-50	20-35	1.30-1.50	0.2-2	0.14-0.21	0.0-2.9	0.1-0.3	.32	.32			
Klickson, mass wasted	0-2	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	40-80	---	---	3	5	56
	2-3	---	---	8-12	0.10-0.30	6-100	0.00-0.00	---	20-40	---	---			
	3-8	20-25	60-70	10-15	1.15-1.30	0.6-2	0.14-0.20	0.0-2.9	3.0-5.0	.28	.43			
	8-12	25-45	40-65	10-15	1.15-1.30	0.6-2	0.12-0.20	0.0-2.9	2.0-3.0	.24	.43			
	12-17	25-45	39-60	12-16	1.15-1.35	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.20	.43			
	17-28	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.5-1.0	.15	.37			
	28-35	35-45	31-45	18-24	1.40-1.55	0.2-2	0.09-0.11	0.0-2.9	0.3-0.9	.10	.37			
	35-50	35-45	31-45	18-24	1.35-1.55	0.2-2	0.04-0.06	0.0-2.9	0.2-0.6	.05	.37			
	50-60	35-45	35-45	12-20	1.35-1.50	0.6-2	0.04-0.06	0.0-2.9	0.1-0.3	.05	.43			
Lakespring	0-7	40-50	40-48	8-12	1.15-1.35	0.6-2	0.17-0.19	0.0-2.9	1.0-2.0	.43	.43	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Green Bluff	0-7	30-40	50-65	5-12	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	2	134
	7-17	35-45	45-60	5-12	1.10-1.40	0.6-2	0.14-0.19	0.0-2.9	0.3-1.0	.64	.64			
	17-29	35-45	45-60	5-15	1.50-1.65	0.6-2	0.14-0.19	0.0-2.9	0.2-0.3	.64	.64			
	29-55	35-45	45-60	5-15	1.50-1.65	0.6-2	0.12-0.19	0.0-2.9	0.2-0.3	.37	.64			
	55-60	35-70	20-55	8-12	1.50-1.65	0.6-2	0.11-0.19	0.0-2.9	0.0-0.3	.37	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7104:														
Blinn, stony surface	0-1	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	2	4	86
	1-2	---	---	0-10	0.10-0.30	6-100	0.00-0.00	---	30-60	---	---			
	2-6	20-40	50-65	8-15	1.00-1.20	0.6-2	0.18-0.20	0.0-2.9	2.0-5.0	.32	.32			
	6-12	20-40	50-60	10-20	1.00-1.30	0.6-2	0.15-0.17	0.0-2.9	1.0-3.0	.24	.43			
	12-24	30-45	35-55	12-20	1.40-1.55	0.6-2	0.12-0.14	0.0-2.9	0.5-1.5	.20	.43			
	24-39	35-50	35-50	10-20	1.40-1.55	0.6-2	0.06-0.09	0.0-2.9	0.3-0.8	.15	.49			
	39-49	---	---	---	---	---	---	---	---	---	---			
Elmira	0-1	30-40	---	0-5	0.10-0.30	6-100	0.00-0.00	---	60-95	---	---	5	2	134
	1-6	75-85	10-20	0-5	1.45-1.65	2-6	0.04-0.08	0.0-2.9	1.0-2.0	.24	.24			
	6-12	75-85	10-20	0-5	1.55-1.65	2-6	0.04-0.08	0.0-2.9	0.5-1.5	.24	.24			
	12-23	85-95	5-10	0-5	1.55-1.65	2-6	0.04-0.07	0.0-2.9	0.1-0.5	.05	.05			
	23-54	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	54-66	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
	66-80	90-100	0-5	0-5	1.55-1.65	2-6	0.04-0.06	0.0-2.9	0.0-0.3	.02	.02			
Kronquist	0-11	28-32	50-60	12-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	4	86
	11-27	25-30	50-59	16-22	1.00-1.20	0.2-0.6	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	27-40	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	40-55	15-35	31-55	27-34	1.30-1.45	0.06-0.2	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	55-60	35-60	10-38	27-34	1.30-1.50	0.06-0.2	0.14-0.16	3.0-5.9	0.5-1.0	.24	.24			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
7105:														
Urban land, gravelly substratum	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Opportunity, disturbed	0-7	42-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	42-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	42-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-95	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7106:														
Urban land, gravelly substratum	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Marblespring, disturbed----------	0-2	76-85	5-19	5-10	1.56-1.80	2-6	0.04-0.06	1.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	76-85	5-19	5-10	1.35-1.50	6-20	0.04-0.06	1.0-2.9	0.5-1.5	.05	.10			
	7-27	76-85	5-19	5-10	1.45-1.55	6-20	0.04-0.06	1.0-2.9	0.0-0.5	.02	.02			
	27-51	76-95	0-19	5-10	1.45-1.55	6-20	0.04-0.06	1.0-2.9	0.0-0.5	.02	.02			
	51-60	86-95	0-14	0-3	1.50-1.60	20-100	0.02-0.04	1.0-2.9	0.0-0.3	.02	.02			
7107:														
Urban land, basalt bedrock substratum	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	35-52	38-55	5-10	1.25-1.50	0.2-0.6	0.04-0.08	1.0-2.9	2.0-4.0	.05	.43	2	7	38
	6-11	35-52	38-55	5-10	1.10-1.25	0.6-2	0.04-0.08	1.0-2.9	1.0-3.0	.10	.43			
	11-17	35-52	33-50	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.5	.15	.49			
	17-26	35-52	33-50	10-15	1.15-1.30	0.6-2	0.06-0.10	1.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
7110:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Opportunity, disturbed----------	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Bong, moist, disturbed----------	0-11	55-75	15-40	5-10	1.50-1.63	0.6-2	0.11-0.15	0.0-2.9	2.0-3.0	.24	.24	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7110:														
Garrison, disturbed	0-4	40-50	40-50	10-18	1.44-1.63	0.2-0.6	0.08-0.13	0.0-2.9	3.0-5.0	.10	.28	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7111:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Opportunity, disturbed	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Bong, moist, disturbed	0-11	55-75	15-40	5-10	1.50-1.63	0.6-2	0.11-0.15	0.0-2.9	2.0-3.0	.24	.24	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7111:														
Garrison, disturbed	0-4	40-50	40-50	10-18	1.44-1.63	0.2-0.6	0.08-0.13	0.0-2.9	3.0-5.0	.10	.28	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7112:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Opportunity, disturbed	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Bong, moist, disturbed	0-11	55-75	15-40	5-10	1.50-1.63	0.6-2	0.11-0.15	0.0-2.9	2.0-3.0	.24	.24	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7112:														
Garrison, disturbed	0-4	40-50	40-50	10-18	1.44-1.63	0.2-0.6	0.08-0.13	0.0-2.9	3.0-5.0	.10	.28	3	6	48
	4-16	30-50	40-60	10-18	1.15-1.35	0.6-2	0.08-0.17	0.0-2.9	2.0-4.0	.15	.37			
	16-24	45-65	20-45	5-15	1.25-1.45	0.6-6	0.03-0.13	0.0-2.9	0.5-1.5	.10	.32			
	24-60	75-95	0-20	0-5	1.50-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.10			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7115:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7115:														
Opportunity, disturbed	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Phoebe, disturbed	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7116:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7116:														
Opportunity, disturbed	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Phoebe, disturbed	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7117:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7117:														
Opportunity, disturbed	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			
Phoebe, disturbed	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7120:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7121:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Hagen, disturbed----	0-7	55-70	25-35	4-10	1.50-1.75	0.6-2	0.12-0.14	0.0-2.9	1.0-3.0	.32	.32	2	2	134
	7-15	55-70	25-35	4-10	1.30-1.50	2-6	0.12-0.16	0.0-2.9	0.5-1.0	.32	.32			
	15-29	80-95	5-20	0-10	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.28	.28			
	29-52	80-95	5-20	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.15	.15			
	52-60	85-100	0-10	0-5	1.40-1.60	6-20	0.04-0.08	0.0-2.9	0.0-0.3	.10	.10			
Marblespring, disturbed----------	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Phoebe, disturbed---	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
7122:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7122:														
Bong, moist, disturbed	0-11	55-75	15-40	5-10	1.50-1.63	0.6-2	0.11-0.15	0.0-2.9	2.0-3.0	.24	.24	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Lakespring, disturbed	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Marblespring, disturbed	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
7123:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7123:														
Lakespring, disturbed	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Speigle, disturbed	0-6	40-50	40-45	10-15	1.44-1.56	0.2-0.6	0.14-0.16	0.0-2.9	2.0-3.0	.17	.37	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
7130:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	45-52	40-48	7-10	1.25-1.50	0.2-0.6	0.04-0.08	0.0-2.9	2.0-4.0	.05	.43	2	7	38
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rockly, disturbed	0-3	36-48	37-49	7-15	1.63-1.75	0.2-0.6	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7130:														
Lakespring, disturbed	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
7131:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	45-52	40-48	7-10	1.25-1.50	0.2-0.6	0.04-0.08	0.0-2.9	2.0-4.0	.05	.43	2	7	38
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rockly, disturbed	0-3	36-48	37-49	7-15	1.63-1.75	0.2-0.6	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Lakespring, disturbed	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Springdale, disturbed	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7132:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	45-52	40-48	7-10	1.25-1.50	0.2-0.6	0.04-0.08	0.0-2.9	2.0-4.0	.05	.43	2	7	38
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rockly, disturbed---	0-3	36-48	37-49	7-15	1.63-1.75	0.2-0.6	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Seaboldt, disturbed	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Springdale, disturbed----------	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7134:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	45-52	40-48	7-10	1.25-1.50	0.2-0.6	0.04-0.08	0.0-2.9	2.0-4.0	.05	.43	2	7	38
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rockly, disturbed---	0-3	36-48	37-49	7-15	1.63-1.75	0.2-0.6	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7134:														
Speigle, disturbed--	0-6	40-50	40-45	10-15	1.44-1.56	0.2-0.6	0.14-0.16	0.0-2.9	2.0-3.0	.17	.37	3	5	56
	6-17	35-50	40-55	10-15	1.20-1.35	0.6-2	0.09-0.15	0.0-2.9	1.0-3.0	.15	.43			
	17-23	35-50	40-55	10-18	1.35-1.50	0.6-2	0.09-0.11	0.0-2.9	0.8-1.5	.10	.43			
	23-35	35-50	40-55	10-18	1.35-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.0	.10	.43			
	35-44	50-70	20-40	10-15	1.40-1.55	0.6-2	0.03-0.05	0.0-2.9	0.3-0.5	.05	.28			
	44-65	50-70	20-40	10-15	1.40-1.55	0.6-2	0.02-0.04	0.0-2.9	0.0-0.3	.02	.32			
Springdale, disturbed----------	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Lakespring, disturbed----------	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
7140:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uhlig, disturbed----	0-4	20-40	50-65	5-18	1.44-1.69	0.2-0.6	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Seaboldt, warm, disturbed----------	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7140:														
Brincken, moist, disturbed	0-7	10-35	50-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Nez Perce, disturbed	0-6	8-15	70-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	3.0-5.9	2.0-4.0	.49	.49	3	4	86
	6-10	8-15	70-75	10-20	1.15-1.35	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.55	.55			
	10-19	8-12	70-75	13-18	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-30	5-10	45-55	35-55	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.8	.28	.28			
	30-42	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.28	.28			
	42-60	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.32	.32			
7150:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seaboldt, disturbed	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Brincken, moist, disturbed	0-7	10-35	50-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Uhlig, disturbed	0-4	20-40	50-65	5-18	1.44-1.69	0.2-0.6	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7150:														
Phoebe, disturbed---	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
7151:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seaboldt, disturbed	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Brincken, moist, disturbed----------	0-7	10-35	50-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Phoebe, disturbed---	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7151:														
Uhlig, disturbed----	0-4	20-40	50-65	5-18	1.44-1.69	0.2-0.6	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
7152:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seaboldt, disturbed	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	0.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	0.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	0.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	0.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	0.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Lakespring, disturbed----------	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Marblespring, disturbed----------	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Springdale, disturbed, stony surface-----------	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7163:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Spens, disturbed----	0-3	75-85	11-21	2-4	1.69-1.81	6-20	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Springdale, disturbed----------	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
7170:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Springdale, disturbed----------	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Marblespring, disturbed----------	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Opportunity, disturbed----------	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7170:														
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
7171:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Springdale, disturbed----------	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Marblespring, disturbed----------	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Brincken, moist, disturbed----------	0-7	10-35	50-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Opportunity, disturbed----------	0-7	45-50	38-46	8-12	1.44-1.69	0.2-0.6	0.09-0.13	0.0-2.9	3.0-5.0	.10	.32	4	6	48
	7-13	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	2.0-4.0	.10	.32			
	13-19	45-50	38-46	8-12	1.15-1.35	0.6-2	0.09-0.13	0.0-2.9	1.8-3.0	.10	.37			
	19-33	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	1.0-3.0	.10	.37			
	33-43	45-60	30-49	6-10	1.25-1.45	2-6	0.06-0.12	0.0-2.9	0.8-1.3	.10	.37			
	43-53	55-85	10-45	0-5	1.35-1.50	6-20	0.02-0.05	0.0-2.9	0.0-0.5	.02	.05			
	53-60	75-100	0-25	0-5	1.45-1.65	20-100	0.01-0.04	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7171:														
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
7172:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Springdale, disturbed----------	0-3	55-70	25-40	2-8	1.50-1.75	0.6-2	0.06-0.10	0.0-2.9	1.0-3.0	.10	.20	5	4	86
	3-7	50-70	25-42	2-8	1.20-1.40	2-6	0.06-0.15	0.0-2.9	0.5-1.5	.10	.20			
	7-13	60-75	20-35	2-8	1.25-1.40	2-6	0.05-0.11	0.0-2.9	0.5-1.0	.10	.24			
	13-25	75-90	5-25	0-5	1.35-1.50	6-100	0.01-0.05	0.0-2.9	0.0-0.5	.05	.15			
	25-61	90-95	0-10	0-5	1.35-1.50	20-100	0.01-0.03	0.0-2.9	0.0-0.0	.02	.02			
Marblespring, disturbed----------	0-2	80-85	5-15	5-10	1.56-1.81	0.6-2	0.04-0.06	0.0-2.9	1.0-3.0	.05	.10	5	2	134
	2-7	80-85	5-15	5-10	1.35-1.50	6-20	0.04-0.06	0.0-2.9	0.5-1.5	.05	.10			
	7-27	80-85	5-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	27-51	80-95	0-15	5-10	1.45-1.55	6-20	0.04-0.06	0.0-2.9	0.0-0.5	.02	.02			
	51-60	90-95	0-10	0-3	1.50-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.3	.02	.02			
Spens, disturbed----	0-3	75-85	11-21	2-4	1.69-1.81	6-20	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15	5	3	86
	3-18	75-95	5-21	0-4	1.45-1.60	20-100	0.03-0.05	0.0-2.9	0.3-0.8	.05	.10			
	18-60	75-95	0-21	0-4	1.45-1.60	20-100	0.02-0.04	0.0-2.9	0.0-0.0	.02	.02			
7177:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed----------	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7177:														
Brincken, moist, disturbed	0-7	10-35	50-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Nez Perce, disturbed	0-6	8-15	70-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	3.0-5.9	2.0-4.0	.49	.49	3	4	86
	6-10	8-15	70-75	10-20	1.15-1.35	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.55	.55			
	10-19	8-12	70-75	13-18	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-30	5-10	45-55	35-55	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.8	.28	.28			
	30-42	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.28	.28			
	42-60	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.32	.32			
Uhlig, disturbed	0-4	20-40	50-65	5-18	1.44-1.69	0.2-0.6	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Stutler, disturbed	0-5	20-40	40-70	8-20	1.44-1.69	0.2-0.6	0.18-0.22	0.0-2.9	2.0-3.0	.28	.49	3	5	56
	5-12	20-45	40-70	7-18	1.15-1.35	0.6-2	0.17-0.18	0.0-2.9	1.0-2.0	.24	.55			
	12-22	30-75	10-60	4-18	1.25-1.45	0.6-6	0.09-0.11	0.0-2.9	0.5-1.3	.15	.55			
	22-32	35-70	12-47	4-18	1.25-1.45	2-6	0.03-0.04	0.0-2.9	0.3-0.8	.05	.43			
	32-42	40-75	10-45	4-18	1.30-1.50	2-6	0.01-0.02	0.0-2.9	0.3-0.8	.02	.20			
	42-61	80-100	0-20	0-7	1.50-1.60	6-100	0.00-0.01	0.0-2.9	0.0-0.3	.02	.05			
7178:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7178:														
Brincken, moist, disturbed	0-7	10-35	50-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Nez Perce, disturbed	0-6	8-15	70-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	3.0-5.9	2.0-4.0	.49	.49	3	4	86
	6-10	8-15	70-75	10-20	1.15-1.35	0.6-2	0.21-0.23	3.0-5.9	1.5-3.5	.55	.55			
	10-19	8-12	70-75	13-18	1.35-1.55	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-30	5-10	45-55	35-55	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.8	.28	.28			
	30-42	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.28	.28			
	42-60	5-10	45-55	35-60	1.25-1.45	0.06-0.2	0.15-0.20	6.0-8.9	0.3-0.5	.32	.32			
Uhlig, disturbed	0-4	20-40	50-65	5-18	1.44-1.69	0.2-0.6	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	4-10	20-45	37-65	5-18	1.20-1.35	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43			
	10-18	20-45	37-65	5-18	1.20-1.35	0.6-2	0.17-0.22	0.0-2.9	1.0-2.5	.43	.43			
	18-32	25-50	35-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.5-1.5	.43	.43			
	32-42	25-65	20-65	5-18	1.30-1.45	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.43	.43			
	42-60	45-75	10-45	5-15	1.35-1.50	0.6-6	0.13-0.18	0.0-2.9	0.0-0.2	.55	.55			
Stutler, disturbed	0-5	20-40	40-70	8-20	1.44-1.69	0.2-0.6	0.18-0.22	0.0-2.9	2.0-3.0	.28	.49	3	5	56
	5-12	20-45	40-70	7-18	1.15-1.35	0.6-2	0.17-0.18	0.0-2.9	1.0-2.0	.24	.55			
	12-22	30-75	10-60	4-18	1.25-1.45	0.6-6	0.09-0.11	0.0-2.9	0.5-1.3	.15	.55			
	22-32	35-70	12-47	4-18	1.25-1.45	2-6	0.03-0.04	0.0-2.9	0.3-0.8	.05	.43			
	32-42	40-75	10-45	4-18	1.30-1.50	2-6	0.01-0.02	0.0-2.9	0.3-0.8	.02	.20			
	42-61	80-100	0-20	0-7	1.50-1.60	6-100	0.00-0.01	0.0-2.9	0.0-0.3	.02	.05			
7179:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed	0-7	35-45	35-45	10-22	1.38-1.63	0.2-0.6	0.15-0.20	1.0-2.9	2.0-4.0	.37	.37	2	4	86
	7-10	35-45	35-55	8-22	1.10-1.30	0.6-2	0.15-0.23	1.0-2.9	1.0-3.0	.43	.43			
	10-16	35-45	37-55	8-18	1.20-1.40	0.6-2	0.12-0.23	1.0-2.9	0.5-1.5	.49	.49			
	16-23	45-70	18-45	4-12	1.40-1.50	2-6	0.07-0.18	1.0-2.9	0.5-1.0	.37	.37			
	23-28	65-90	10-25	2-10	1.50-1.60	2-20	0.01-0.10	1.0-2.9	0.0-0.5	.05	.28			
	28-38	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7179:														
Brincken, moist, disturbed	0-7	10-35	50-75	10-20	1.38-1.63	0.2-0.6	0.21-0.23	0.0-2.9	2.0-4.0	.43	.43	4	4	86
	7-13	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.5-3.5	.49	.49			
	13-19	10-60	25-75	10-20	1.15-1.35	0.6-2	0.18-0.23	0.0-2.9	1.0-3.0	.49	.49			
	19-29	10-65	15-75	5-20	1.20-1.40	0.6-6	0.08-0.23	0.0-2.9	0.5-2.5	.43	.43			
	29-41	10-50	25-75	15-30	1.30-1.50	0.2-2	0.04-0.14	0.0-2.9	0.3-0.8	.10	.37			
	41-57	10-80	5-60	15-30	1.30-1.50	0.2-2	0.03-0.14	0.0-2.9	0.0-0.5	.05	.24			
	57-60	10-30	40-72	18-45	1.25-1.45	0.06-2	0.15-0.21	3.0-5.9	0.0-0.5	.49	.49			
Rockly, disturbed	0-3	36-48	37-49	7-15	1.63-1.75	0.2-0.6	0.06-0.11	0.0-2.9	2.0-4.0	.10	.49	1	7	38
	3-6	30-50	35-55	7-15	1.40-1.50	0.6-2	0.06-0.11	0.0-2.9	1.0-2.0	.15	.55			
	6-16	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
7180:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phoebe, disturbed	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Bong, moist, disturbed	0-11	55-75	15-40	5-10	1.50-1.63	0.6-2	0.11-0.15	0.0-2.9	2.0-3.0	.24	.24	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7181:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phoebe, disturbed---	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Bong, moist, disturbed----------	0-11	55-75	15-40	5-10	1.50-1.63	0.6-2	0.11-0.15	0.0-2.9	2.0-3.0	.24	.24	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			
Hardesty, disturbed	0-4	15-25	60-70	10-18	1.00-1.50	0.2-0.6	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	5	4	86
	4-11	15-25	60-70	10-18	0.80-1.20	0.6-2	0.19-0.23	0.0-2.9	1.0-2.0	.49	.49			
	11-23	20-30	60-70	8-15	0.80-1.20	0.6-2	0.21-0.23	0.0-2.9	0.3-1.0	.55	.55			
	23-32	20-55	40-70	5-12	0.80-1.20	0.6-2	0.18-0.23	0.0-2.9	0.3-0.8	.64	.64			
	32-39	45-60	40-50	0-5	0.80-1.20	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.64	.64			
	39-60	15-85	15-85	0-5	0.80-1.20	0.6-2	0.12-0.14	0.0-2.9	0.0-0.3	.64	.64			
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
7182:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phoebe, disturbed---	0-8	60-70	20-30	5-15	1.44-1.63	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.17	.17	3	2	134
	8-16	60-70	25-30	5-15	1.20-1.35	2-6	0.15-0.18	0.0-2.9	2.0-3.0	.20	.20			
	16-25	60-70	20-25	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.32	.32			
	25-34	60-70	25-30	5-15	1.35-1.50	2-6	0.13-0.18	0.0-2.9	0.5-1.0	.32	.32			
	34-44	75-90	5-20	5-8	1.35-1.50	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.24	.24			
	44-60	85-95	0-10	1-5	1.40-1.60	6-20	0.02-0.10	0.0-2.9	0.0-0.5	.02	.02			
Bong, moist, disturbed----------	0-11	55-75	15-40	5-10	1.50-1.63	0.6-2	0.11-0.15	0.0-2.9	2.0-3.0	.24	.24	5	2	134
	11-22	55-75	15-40	5-10	1.30-1.50	2-6	0.09-0.13	0.0-2.9	1.0-2.0	.32	.32			
	22-28	55-85	10-40	2-8	1.30-1.50	2-6	0.04-0.07	0.0-2.9	1.0-2.0	.20	.32			
	28-60	90-95	0-10	0-5	1.40-1.60	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.02	.02			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7182:														
Lakespring, disturbed	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
7190:														
Urban land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lakespring, disturbed	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Marble, disturbed	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Northstar, disturbed	0-6	45-52	40-48	7-10	1.25-1.50	0.2-0.6	0.04-0.08	0.0-2.9	2.0-4.0	.05	.43	2	7	38
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7191:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lakespring, disturbed----------	0-7	40-50	40-48	8-12	1.44-1.69	0.2-0.6	0.17-0.19	0.0-2.9	1.0-2.0	.49	.49	3	4	86
	7-21	35-45	30-47	18-25	1.20-1.40	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
	21-34	35-45	30-47	18-25	1.20-1.40	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.28	.43			
	34-39	15-30	36-54	28-34	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	39-50	15-25	48-60	18-27	1.70-1.90	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.49	.49			
	50-72	15-30	36-51	28-34	1.65-1.75	0.06-0.2	0.02-0.04	3.0-5.9	0.0-0.5	.43	.43			
Marble, disturbed---	0-4	75-85	10-20	2-5	1.63-1.88	0.6-2	0.05-0.08	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	4-8	75-95	0-20	2-5	1.30-1.50	6-20	0.05-0.08	0.0-2.9	0.0-0.5	.10	.10			
	8-27	75-100	0-25	0-2	1.40-1.60	6-20	0.05-0.07	0.0-2.9	0.0-0.5	.02	.02			
	27-53	75-100	0-23	0-2	1.40-1.60	6-20	0.03-0.05	0.0-2.9	0.0-0.5	.02	.02			
	53-60	90-100	0-10	0-2	1.40-1.60	6-100	0.03-0.05	0.0-2.9	0.0-0.3	.02	.02			
Northstar, disturbed	0-6	45-52	40-48	7-10	1.25-1.50	0.2-0.6	0.04-0.08	0.0-2.9	2.0-4.0	.05	.43	2	7	38
	6-11	45-52	40-48	7-10	1.10-1.25	0.6-2	0.04-0.08	0.0-2.9	1.0-3.0	.10	.43			
	11-17	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.5	.15	.49			
	17-26	45-52	35-45	10-15	1.15-1.30	0.6-2	0.06-0.10	0.0-2.9	0.5-1.0	.10	.55			
	26-36	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
7197:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Spokane, disturbed--	0-4	40-50	40-50	7-11	1.38-1.63	0.2-0.6	0.16-0.18	1.0-2.9	2.0-4.0	.32	.32	3	4	86
	4-10	45-60	35-45	5-11	1.15-1.35	2-6	0.11-0.13	1.0-2.9	1.0-2.0	.32	.32			
	10-18	50-70	20-40	5-10	1.45-1.55	2-6	0.08-0.10	1.0-2.9	0.5-1.0	.20	.37			
	18-26	60-80	11-31	3-9	1.45-1.55	2-6	0.05-0.10	1.0-2.9	0.3-0.5	.24	.37			
	26-36	---	---	---	---	---	---	---	---	---	---			
Lenz, disturbed-----	0-4	55-65	23-37	8-12	1.20-1.38	0.6-2	0.06-0.10	1.0-2.9	2.5-4.5	.05	.20	2	5	56
	4-9	55-70	18-37	8-12	0.95-1.10	2-6	0.06-0.10	1.0-2.9	1.8-2.3	.05	.24			
	9-14	45-70	18-49	6-12	1.30-1.55	2-6	0.06-0.11	1.0-2.9	0.8-1.3	.10	.24			
	14-26	55-70	18-33	6-12	1.40-1.60	2-6	0.03-0.07	1.0-2.9	0.0-0.5	.10	.28			
	26-38	55-70	22-41	4-8	1.45-1.65	2-6	0.03-0.07	1.0-2.9	0.0-0.3	.05	.43			
	38-48	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
7197:														
Swakane, disturbed--	0-3	45-50	40-48	7-15	1.38-1.50	0.2-0.6	0.13-0.15	0.0-2.9	2.0-4.0	.28	.43	1	5	56
	3-9	45-50	40-48	7-15	1.10-1.20	0.6-2	0.13-0.15	0.0-2.9	1.0-3.0	.24	.49			
	9-13	50-60	30-40	5-10	1.10-1.20	2-6	0.04-0.09	0.0-2.9	0.3-0.8	.15	.49			
	13-17	55-65	30-40	5-10	1.40-1.50	2-6	0.04-0.08	0.0-2.9	0.0-0.5	.15	.49			
	17-19	65-80	12-27	5-8	1.40-1.55	2-20	0.02-0.04	0.0-2.9	0.0-0.3	.10	.32			
	19-29	---	---	---	---	---	---	---	---	---	---			
7200:														
Rock outcrop, cliffs	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
Rubble land, cliffs	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
8000:														
Pywell----------	0-6	10-20	50-70	10-35	0.30-0.50	0.6-2	0.30-0.60	---	30-50	---	---	2	2	134
	6-14	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	30-50	---	---			
	14-27	10-20	50-70	10-35	0.40-0.60	0.6-2	0.30-0.60	---	25-35	---	---			
	27-31	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	31-45	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
	45-60	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	40-80	---	---			
Bellslake----------	0-6	15-25	63-75	8-12	0.65-0.85	0.6-2	0.21-0.23	0.0-2.9	10-14	.37	.37	5	4	86
	6-10	15-70	20-75	8-12	0.70-0.90	0.6-2	0.18-0.23	0.0-2.9	8.0-12	.43	.43			
	10-18	15-70	20-75	8-12	0.70-0.90	0.6-2	0.18-0.23	0.0-2.9	8.0-12	.43	.43			
	18-30	15-30	58-77	8-12	0.70-0.90	0.6-2	0.19-0.21	0.0-2.9	10-14	.43	.43			
	30-48	10-20	50-70	10-35	0.15-0.35	0.6-2	0.30-0.60	---	20-40	---	---			
	48-55	10-20	50-70	10-35	0.10-0.30	0.6-2	0.30-0.60	---	30-50	---	---			
	55-65	10-20	50-70	10-35	0.05-0.25	0.6-2	0.30-0.60	---	35-65	---	---			
Hoodoo----------	0-10	15-25	63-73	6-12	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	3.0-4.0	.43	.43	5	4	86
	10-18	15-50	40-75	6-10	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	1.0-3.0	.55	.55			
	18-23	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.2-0.4	.64	.64			
	23-40	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	40-52	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
	52-60	15-50	45-80	4-8	0.85-1.10	0.6-2	0.25-0.35	0.0-2.9	0.1-0.3	.64	.64			
8001:														
Saltese----------	0-5	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	2	2	134
	5-12	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	12-16	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	16-24	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	24-40	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	40-60	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
8001:														
Cocolalla	0-11	10-25	55-80	10-20	0.90-1.10	0.6-2	0.21-0.23	0.0-2.9	4.0-8.0	.43	.43	5	4	86
	11-28	10-25	55-80	10-20	0.95-1.15	0.6-2	0.19-0.23	0.0-2.9	3.0-5.0	.43	.43			
	28-37	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-1.0	.64	.64			
	37-43	5-60	35-90	1-5	1.05-1.25	0.6-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
	43-54	5-60	25-90	4-18	1.00-1.20	0.6-2	0.17-0.23	0.0-2.9	0.5-1.5	.64	.64			
	54-60	5-60	10-90	4-30	1.05-1.25	0.2-2	0.17-0.23	0.0-2.9	0.0-0.5	.64	.64			
Narcisse	0-8	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	3.0-4.0	.32	.32	5	5	56
	8-14	20-30	55-65	12-16	1.25-1.35	0.6-2	0.17-0.20	0.0-2.9	2.0-4.0	.43	.43			
	14-25	20-45	41-66	10-14	1.30-1.45	0.6-2	0.15-0.18	0.0-2.9	2.0-4.0	.37	.37			
	25-34	20-65	30-75	4-8	1.30-1.45	0.6-2	0.13-0.18	0.0-2.9	0.5-1.0	.64	.64			
	34-48	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
	48-60	45-70	25-48	2-7	1.30-1.45	2-6	0.10-0.16	0.0-2.9	0.5-1.0	.32	.32			
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8002:														
Saltese, drained	0-5	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	2	2	134
	5-12	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	12-16	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	16-24	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	24-40	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	40-60	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
Fluvaquentic Haplosaprists	0-15	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---	1	2	134
	15-25	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	25-50	10-20	50-70	10-35	0.20-0.40	0.6-2	0.30-0.60	---	20-65	---	---			
	50-60	20-55	40-70	0-10	0.90-1.30	0.6-2	0.19-0.22	0.0-2.9	0.1-0.3	.64	.64			
Peone, drained	0-6	10-25	55-75	15-22	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.37	.37	4	5	56
	6-11	10-55	35-70	10-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	11-30	10-55	25-70	6-20	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	30-42	20-60	30-70	6-20	0.95-1.05	0.6-2	0.15-0.19	0.0-2.9	0.0-0.3	.64	.64			
	42-60	75-85	10-20	4-8	1.20-1.50	6-20	0.05-0.07	0.0-2.9	0.0-0.3	.17	.17			
Endoaquolls	0-5	40-50	30-53	7-20	0.90-1.30	0.6-2	0.14-0.18	0.0-2.9	3.0-7.0	.32	.32	5	5	56
	5-11	20-65	15-75	5-20	1.00-1.40	0.6-2	0.11-0.21	0.0-2.9	2.0-6.0	.32	.32			
	11-19	20-70	10-75	5-20	1.10-1.50	0.6-6	0.09-0.21	0.0-2.9	0.0-2.0	.37	.37			
	19-28	20-70	10-75	5-20	1.10-1.50	0.6-6	0.07-0.21	0.0-2.9	0.0-1.0	.37	.37			
	28-45	45-75	10-55	0-18	1.30-1.50	0.6-6	0.04-0.18	0.0-2.9	0.0-1.0	.43	.43			
	45-60	55-85	5-45	0-10	1.30-1.60	2-20	0.03-0.15	0.0-2.9	0.0-0.5	.37	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9124:														
Caldwell----------	0-4	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.37	.37	5	5	56
	4-10	5-25	55-80	15-24	1.10-1.30	0.2-0.6	0.19-0.21	3.0-5.9	3.0-7.0	.43	.43			
	10-16	5-25	55-75	15-27	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	16-21	5-25	50-75	18-27	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-4.0	.43	.43			
	21-30	5-25	50-75	18-27	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43			
	30-40	5-25	50-75	18-27	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	0.5-2.0	.49	.49			
	40-52	5-20	45-75	18-35	1.25-1.50	0.6-2	0.19-0.21	3.0-5.9	0.5-1.5	.49	.49			
	52-60	5-20	45-75	18-35	1.25-1.50	0.6-2	0.19-0.21	3.0-5.9	0.3-1.0	.49	.49			
Cald----------	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	53-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37			
	13-17	5-22	55-80	10-25	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	17-25	5-53	41-80	6-27	1.15-1.40	2-6	0.19-0.21	3.0-5.9	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.6-2	0.18-0.20	3.0-5.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.6-2	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Endoaquolls---------	0-10	5-25	55-80	15-22	1.05-1.25	0.6-2	0.19-0.21	0.0-4.0	4.0-8.0	.37	.37	5	5	56
	10-20	5-25	50-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	2.0-6.0	.43	.43			
	20-30	5-25	50-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-5.0	1.0-3.0	.43	.43			
	30-40	5-45	40-70	15-27	1.20-1.40	0.6-2	0.19-0.21	0.0-5.0	0.5-2.0	.49	.49			
	40-52	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.5-1.5	.49	.49			
	52-60	5-45	40-75	15-30	1.25-1.50	0.2-2	0.19-0.21	0.0-5.9	0.3-1.0	.49	.49			
Thatuna----------	0-6	8-12	65-75	16-24	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.32	.32	5	6	48
	6-12	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-3.0	.43	.43			
	12-19	8-12	65-75	16-24	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	19-28	10-12	63-70	18-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.8-1.5	.49	.49			
	28-35	10-12	73-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.6	.64	.64			
	35-43	9-11	55-65	24-35	1.45-1.60	0.6-2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	43-52	9-11	55-65	24-35	1.45-1.60	0.6-2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
	52-60	9-11	55-65	24-35	1.45-1.60	0.06-0.2	0.12-0.20	3.0-5.9	0.2-0.3	.49	.49			
Latah----------	0-10	8-12	66-75	14-22	1.05-1.25	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.43	.43	4	5	56
	10-14	8-12	66-75	14-22	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	14-19	8-12	70-80	12-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	19-22	8-12	76-80	8-12	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.5-1.5	.64	.64			
	22-31	6-8	52-60	35-40	1.30-1.50	0.2-0.6	0.15-0.19	3.0-5.9	0.3-1.0	.37	.37			
	31-38	5-8	50-60	35-45	1.30-1.50	0.2-0.6	0.15-0.19	6.0-8.9	0.3-0.8	.37	.37			
	38-60	5-8	50-65	30-45	1.30-1.50	0.2-0.6	0.15-0.19	6.0-8.9	0.3-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9300:														
Taney	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	22-29	10-15	62-70	17-23	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.49	.49			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	0.0-2.9	0.3-1.0	.55	.55			
	31-53	7-15	59-69	24-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
	53-60	7-15	59-65	24-38	1.50-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Carlinton, dry	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Latahco	0-13	5-22	55-80	15-25	1.15-1.30	0.6-2	0.19-0.21	0.0-5.9	4.0-7.0	.32	.32	5	6	48
	13-20	5-45	45-75	6-20	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-26	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.5-1.5	.43	.43			
	26-42	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.3-1.0	.43	.43			
	42-51	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.2-0.5	.49	.49			
	51-62	5-25	55-75	20-30	1.30-1.50	0.6-2	0.17-0.20	0.0-5.9	0.2-0.5	.49	.49			
Setters	0-4	5-10	66-79	16-24	1.20-1.30	0.2-0.6	0.18-0.20	0.0-2.9	3.0-5.0	.37	.37	4	6	48
	4-15	5-10	65-77	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-2.9	1.5-4.5	.43	.43			
	15-19	5-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.5-1.5	.55	.55			
	19-22	8-12	68-80	12-20	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.3-0.6	.55	.55			
	22-60	3-9	44-60	37-48	1.40-1.60	0.06-0.2	0.13-0.15	6.0-8.9	0.1-0.4	.32	.32			
Southwick	0-6	3-10	65-80	12-25	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	4.0-6.0	.37	.37	4	5	56
	6-13	3-10	65-80	12-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.5	.43	.43			
	13-28	3-10	65-80	15-25	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-2.0	.49	.49			
	28-31	3-10	74-85	8-16	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.55	.55			
	31-49	3-10	60-70	25-35	1.50-1.65	0.6-2	0.14-0.16	3.0-5.9	0.1-0.5	.43	.43			
	49-54	3-10	60-70	25-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
	54-70	3-10	60-75	22-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9301:														
Taney	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	22-29	10-15	62-70	17-23	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.49	.49			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	0.0-2.9	0.3-1.0	.55	.55			
	31-53	7-15	59-69	24-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
	53-60	7-15	59-65	24-38	1.50-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Carlinton, dry	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Benewah	0-6	9-15	70-75	10-20	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	6-15	9-15	70-75	10-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	15-18	9-11	74-78	11-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.4-0.8	.64	.64			
	18-23	9-11	59-65	24-30	1.40-1.60	0.6-2	0.12-0.16	0.0-2.9	0.3-0.6	.43	.43			
	23-34	9-11	55-69	20-35	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.3-0.5	.43	.43			
	34-60	9-11	55-69	20-38	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.2-0.4	.43	.43			
Setters	0-4	5-10	66-79	16-24	1.20-1.30	0.2-0.6	0.18-0.20	0.0-2.9	3.0-5.0	.37	.37	4	6	48
	4-15	5-10	65-77	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-2.9	1.5-4.5	.43	.43			
	15-19	5-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.5-1.5	.55	.55			
	19-22	8-12	68-80	12-20	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.3-0.6	.55	.55			
	22-60	3-9	44-60	37-48	1.40-1.60	0.06-0.2	0.13-0.15	6.0-8.9	0.1-0.4	.32	.32			
Latahco	0-13	5-22	55-80	15-25	1.15-1.30	0.6-2	0.19-0.21	0.0-5.9	4.0-7.0	.32	.32	5	6	48
	13-20	5-45	45-75	6-20	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-26	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.5-1.5	.43	.43			
	26-42	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.3-1.0	.43	.43			
	42-51	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.2-0.5	.49	.49			
	51-62	5-25	55-75	20-30	1.30-1.50	0.6-2	0.17-0.20	0.0-5.9	0.2-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9330:														
Carlinton	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Carlinton, dry	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Lovell	0-8	6-16	62-72	15-25	0.90-1.00	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	8-18	8-18	62-72	15-24	0.95-1.15	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	18-22	5-15	65-75	18-25	1.25-1.50	0.2-0.6	0.17-0.19	0.0-2.9	0.5-1.5	.49	.49			
	22-34	3-13	63-73	20-30	1.30-1.60	0.6-2	0.16-0.18	0.0-2.9	0.3-0.8	.49	.49			
	34-51	15-29	48-58	20-30	1.30-1.60	0.6-2	0.15-0.17	0.0-2.9	0.2-0.5	.49	.49			
	51-60	25-34	45-55	16-25	1.30-1.60	0.6-2	0.15-0.17	0.0-2.9	0.2-0.4	.49	.49			
Taney	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	22-29	10-15	62-70	17-23	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.49	.49			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	0.0-2.9	0.3-1.0	.55	.55			
	31-53	7-15	59-69	24-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
	53-60	7-15	59-65	24-38	1.50-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Benewah	0-6	9-15	70-75	10-20	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	6-15	9-15	70-75	10-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	15-18	9-11	74-78	11-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.4-0.8	.64	.64			
	18-23	9-11	59-65	24-30	1.40-1.60	0.6-2	0.12-0.16	0.0-2.9	0.3-0.6	.43	.43			
	23-34	9-11	55-69	20-35	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.3-0.5	.43	.43			
	34-60	9-11	55-69	20-38	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.2-0.4	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9335:														
Carlinton, dry------	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Carlinton----------	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Taney---------------	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	22-29	10-15	62-70	17-23	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.49	.49			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	0.0-2.9	0.3-1.0	.55	.55			
	31-53	7-15	59-69	24-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
	53-60	7-15	59-65	24-38	1.50-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Benewah-------------	0-6	9-15	70-75	10-20	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	6-15	9-15	70-75	10-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	15-18	9-11	74-78	11-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.4-0.8	.64	.64			
	18-23	9-11	59-65	24-30	1.40-1.60	0.6-2	0.12-0.16	0.0-2.9	0.3-0.6	.43	.43			
	23-34	9-11	55-69	20-35	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.3-0.5	.43	.43			
	34-60	9-11	55-69	20-38	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.2-0.4	.43	.43			
Lovell--------------	0-8	6-16	62-72	15-25	0.90-1.00	0.6-2	0.20-0.23	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	8-18	8-18	62-72	15-24	0.95-1.15	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	18-22	5-15	65-75	18-25	1.25-1.50	0.2-0.6	0.17-0.19	0.0-2.9	0.5-1.5	.49	.49			
	22-34	3-13	63-73	20-30	1.30-1.60	0.6-2	0.16-0.18	0.0-2.9	0.3-0.8	.49	.49			
	34-51	15-29	48-58	20-30	1.30-1.60	0.6-2	0.15-0.17	0.0-2.9	0.2-0.5	.49	.49			
	51-60	25-34	45-55	16-25	1.30-1.60	0.6-2	0.15-0.17	0.0-2.9	0.2-0.4	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9335:														
Santa	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-13	72-82	10-17	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	4-9	8-13	70-81	11-17	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	9-15	8-13	70-78	12-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	15-34	8-15	70-82	8-15	1.40-1.55	0.6-2	0.18-0.20	0.0-2.9	0.5-1.0	.64	.64			
	34-44	7-12	60-70	20-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.49	.49			
	44-60	7-12	55-69	24-34	1.55-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
9336:														
Carlinton, dry	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Taney	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	22-29	10-15	62-70	17-23	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.49	.49			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	0.0-2.9	0.3-1.0	.55	.55			
	31-53	7-15	59-69	24-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
	53-60	7-15	59-65	24-38	1.50-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Carlinton	0-5	8-13	72-82	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32	4	4	86
	5-10	8-13	72-82	10-18	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	10-14	8-13	70-81	11-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	14-20	8-13	70-78	12-21	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	20-23	8-13	72-78	9-15	1.40-1.55	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	23-30	7-12	62-70	20-32	1.50-1.65	0.6-2	0.14-0.18	0.0-2.9	0.3-0.8	.49	.49			
	30-53	7-12	60-67	24-36	1.60-1.70	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.43	.43			
	53-60	7-12	58-65	24-34	1.50-1.65	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Benewah	0-6	9-15	70-75	10-20	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	6-15	9-15	70-75	10-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	15-18	9-11	74-78	11-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.4-0.8	.64	.64			
	18-23	9-11	59-65	24-30	1.40-1.60	0.6-2	0.12-0.16	0.0-2.9	0.3-0.6	.43	.43			
	23-34	9-11	55-69	20-35	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.3-0.5	.43	.43			
	34-60	9-11	55-69	20-38	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.2-0.4	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9336:														
Santa	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-13	72-82	10-17	1.10-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-5.0	.43	.43			
	4-9	8-13	70-81	11-17	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43			
	9-15	8-13	70-78	12-18	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.55	.55			
	15-34	8-15	70-82	8-15	1.40-1.55	0.6-2	0.18-0.20	0.0-2.9	0.5-1.0	.64	.64			
	34-44	7-12	60-70	20-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.3-0.8	.49	.49			
	44-60	7-12	55-69	24-34	1.55-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
Latahco	0-13	5-22	55-80	15-25	1.15-1.30	0.6-2	0.19-0.21	0.0-5.9	4.0-7.0	.32	.32	5	6	48
	13-20	5-45	45-75	6-20	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-26	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.5-1.5	.43	.43			
	26-42	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.3-1.0	.43	.43			
	42-51	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.2-0.5	.49	.49			
	51-62	5-25	55-75	20-30	1.30-1.50	0.6-2	0.17-0.20	0.0-5.9	0.2-0.5	.49	.49			
9340:														
Arson	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Lotuspoint	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Ardenvoir	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9340:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Bechtel------------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	20-25	60-70	10-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.37	.37			
	4-9	20-30	55-70	10-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	9-17	20-35	45-65	15-20	1.45-1.60	0.6-2	0.16-0.19	0.0-2.9	0.4-0.8	.49	.49			
	17-26	20-35	40-60	15-25	1.45-1.60	0.6-2	0.16-0.19	0.0-2.9	0.3-0.7	.49	.49			
	26-35	20-35	40-62	18-25	1.45-1.60	0.6-2	0.09-0.14	0.0-2.9	0.2-0.6	.17	.43			
	35-56	25-40	37-60	10-23	1.45-1.65	0.6-2	0.05-0.07	0.0-2.9	0.1-0.3	.10	.49			
	56-66	---	---	---	---	---	---	---	---	---	---			
Sinkler------------	0-0.5	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	0.5-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	1-6	9-15	70-81	9-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	6-12	10-15	70-76	11-17	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	12-20	11-15	66-73	15-20	1.30-1.50	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-28	10-15	64-70	18-24	1.40-1.50	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.49	.49			
	28-38	10-15	61-69	20-26	1.40-1.50	0.6-2	0.15-0.17	0.0-2.9	0.1-0.5	.49	.49			
	38-51	10-15	56-63	24-33	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.1-0.5	.49	.49			
	51-60	9-15	54-60	26-37	1.50-1.70	0.6-2	0.08-0.12	0.0-2.9	0.1-0.5	.43	.43			
9341:														
Sinkler------------	0-0.5	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	0.5-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	1-6	9-15	70-81	9-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	6-12	10-15	70-76	11-17	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	12-20	11-15	66-73	15-20	1.30-1.50	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-28	10-15	64-70	18-24	1.40-1.50	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.49	.49			
	28-38	10-15	61-69	20-26	1.40-1.50	0.6-2	0.15-0.17	0.0-2.9	0.1-0.5	.49	.49			
	38-51	10-15	56-63	24-33	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.1-0.5	.49	.49			
	51-60	9-15	54-60	26-37	1.50-1.70	0.6-2	0.08-0.12	0.0-2.9	0.1-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9341:														
Arson	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Benewah	0-6	9-15	70-75	10-20	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.43	.43	5	4	86
	6-15	9-15	70-75	10-20	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	0.5-1.0	.55	.55			
	15-18	9-11	74-80	10-15	1.30-1.50	0.6-2	0.19-0.21	0.0-2.9	0.4-0.8	.64	.64			
	18-23	9-11	59-65	24-30	1.40-1.60	0.6-2	0.12-0.16	0.0-2.9	0.3-0.6	.43	.43			
	23-34	9-11	55-69	20-35	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.3-0.5	.43	.43			
	34-60	9-11	55-69	20-38	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.2-0.4	.43	.43			
Sharptop	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	7-14	76-85	5-10	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	4-9	9-14	74-80	8-13	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	9-17	10-15	69-76	10-16	1.30-1.50	0.6-2	0.15-0.19	0.0-2.9	0.5-2.0	.55	.55			
	17-27	8-12	66-74	16-22	1.40-1.60	0.6-2	0.10-0.15	0.0-2.9	0.3-1.0	.55	.55			
	27-42	7-11	64-72	17-27	1.50-1.70	0.6-2	0.05-0.15	0.0-2.9	0.1-0.5	.49	.49			
	42-49	6-13	63-69	18-30	1.50-1.70	0.6-2	0.05-0.10	0.0-2.9	0.1-0.5	.55	.55			
	49-59	---	---	---	---	---	---	---	---	---	---			
Bechtel	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	20-25	60-70	10-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.37	.37			
	4-9	20-30	55-70	10-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	9-17	20-35	45-65	15-20	1.45-1.60	0.6-2	0.16-0.19	0.0-2.9	0.4-0.8	.49	.49			
	17-26	20-35	40-60	15-25	1.45-1.60	0.6-2	0.16-0.19	0.0-2.9	0.3-0.7	.49	.49			
	26-35	20-35	40-62	18-25	1.45-1.60	0.6-2	0.09-0.14	0.0-2.9	0.2-0.6	.17	.43			
	35-56	25-40	37-60	10-23	1.45-1.65	0.6-2	0.05-0.07	0.0-2.9	0.1-0.3	.10	.49			
	56-66	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9341:														
Grangemont, warm----	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	2	134
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	16-20	70-76	8-10	0.65-0.95	0.6-2	0.19-0.21	0.0-2.9	2.0-5.0	.37	.37			
	4-10	16-20	70-76	8-10	0.75-1.00	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	10-18	5-15	65-75	15-20	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.3-0.5	.55	.55			
	18-25	5-15	65-77	15-20	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.2-0.4	.55	.55			
	25-34	5-15	60-68	18-30	1.45-1.60	0.6-2	0.19-0.21	0.0-2.9	0.1-0.3	.49	.49			
	34-42	5-15	60-68	18-30	1.45-1.60	0.6-2	0.19-0.21	0.0-2.9	0.1-0.3	.49	.49			
	42-53	5-15	60-68	18-30	1.45-1.60	0.6-2	0.19-0.21	0.0-2.9	0.1-0.3	.49	.49			
	53-63	5-15	60-65	20-30	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.1-0.3	.28	.43			
9342:														
Sinkler, dry--------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-8	9-15	70-81	9-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.37	.37			
	8-14	9-15	70-76	13-22	1.15-1.35	0.6-2	0.16-0.20	0.0-2.9	1.0-3.0	.49	.49			
	14-20	9-15	64-73	15-25	1.30-1.50	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49			
	20-33	9-15	60-70	20-30	1.35-1.55	0.6-2	0.15-0.17	0.0-2.9	0.3-0.8	.49	.49			
	33-44	9-15	58-69	20-30	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.1-0.5	.43	.43			
	44-62	9-15	55-62	23-32	1.50-1.70	0.6-2	0.08-0.12	0.0-2.9	0.1-0.5	.49	.49			
Arson, dry----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9342:														
McCrosket	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Lotuspoint	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Sinkler	0-0.5	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	0.5-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	1-6	9-15	70-81	9-15	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	6-12	10-15	70-76	11-17	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	12-20	11-15	66-73	15-20	1.30-1.50	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-28	10-15	64-70	18-24	1.40-1.50	0.6-2	0.16-0.18	0.0-2.9	0.3-1.0	.49	.49			
	28-38	10-15	61-69	20-26	1.40-1.50	0.6-2	0.15-0.17	0.0-2.9	0.1-0.5	.49	.49			
	38-51	10-15	56-63	24-33	1.45-1.65	0.6-2	0.12-0.16	0.0-2.9	0.1-0.5	.49	.49			
	51-60	9-15	54-60	26-37	1.50-1.70	0.6-2	0.08-0.12	0.0-2.9	0.1-0.5	.43	.43			
9350:														
Southwick	0-6	3-10	65-80	12-25	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	4.0-6.0	.37	.37	4	5	56
	6-13	3-10	65-80	12-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.5	.43	.43			
	13-28	3-10	65-80	15-25	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-2.0	.49	.49			
	28-31	3-10	74-85	8-16	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.55	.55			
	31-49	3-10	60-70	25-35	1.50-1.65	0.6-2	0.14-0.16	3.0-5.9	0.1-0.5	.43	.43			
	49-54	3-10	60-70	25-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
	54-70	3-10	60-75	22-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
Larkin	0-6	4-10	65-75	15-25	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.5-5.0	.28	.28	5	6	48
	6-14	4-10	65-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.5-4.0	.43	.43			
	14-22	4-10	65-75	18-30	1.25-1.45	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.49	.49			
	22-39	4-10	60-74	22-30	1.30-1.55	0.6-2	0.16-0.18	3.0-5.9	0.1-0.5	.49	.49			
	39-60	4-10	60-71	25-35	1.30-1.60	0.6-2	0.15-0.18	3.0-5.9	0.1-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9350:														
Latahco	0-13	5-22	55-80	15-25	1.15-1.30	0.6-2	0.19-0.21	0.0-5.9	4.0-7.0	.32	.32	5	6	48
	13-20	5-45	45-75	6-20	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-26	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.5-1.5	.43	.43			
	26-42	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.3-1.0	.43	.43			
	42-51	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.2-0.5	.49	.49			
	51-62	5-25	55-75	20-30	1.30-1.50	0.6-2	0.17-0.20	0.0-5.9	0.2-0.5	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	53-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37			
	13-17	5-22	55-80	10-25	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	17-25	5-53	41-80	6-27	1.15-1.40	2-6	0.19-0.21	3.0-5.9	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.6-2	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Driscoll	0-5	3-10	65-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32	4	6	48
	5-10	3-10	65-80	15-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	10-17	3-10	65-79	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-5.9	0.5-2.0	.49	.49			
	17-24	3-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-1.0	.55	.55			
	24-26	3-10	67-82	10-23	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.64	.64			
	26-42	3-10	50-65	32-48	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.32	.32			
	42-49	3-10	50-65	32-45	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.37	.37			
	49-60	3-10	55-69	28-40	1.35-1.60	0.6-2	0.12-0.16	6.0-8.9	0.1-0.5	.43	.43			
Taney	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	22-29	10-15	62-70	17-23	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.49	.49			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	0.0-2.9	0.3-1.0	.55	.55			
	31-53	7-15	59-69	24-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
	53-60	7-15	59-65	24-38	1.50-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
9355:														
Southwick	0-6	3-10	65-80	12-25	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	4.0-6.0	.37	.37	4	5	56
	6-13	3-10	65-80	12-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.5	.43	.43			
	13-28	3-10	65-80	15-25	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-2.0	.49	.49			
	28-31	3-10	74-85	8-16	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.55	.55			
	31-49	3-10	60-70	25-35	1.50-1.65	0.6-2	0.14-0.16	3.0-5.9	0.1-0.5	.43	.43			
	49-54	3-10	60-70	25-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
	54-70	3-10	60-75	22-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9355:														
Driscoll	0-5	3-10	65-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32	4	6	48
	5-10	3-10	65-80	15-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	10-17	3-10	65-79	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-5.9	0.5-2.0	.49	.49			
	17-24	3-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-1.0	.55	.55			
	24-26	3-10	67-82	10-23	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.64	.64			
	26-42	3-10	50-65	32-48	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.32	.32			
	42-49	3-10	50-65	32-45	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.37	.37			
	49-60	3-10	55-69	28-40	1.35-1.60	0.6-2	0.12-0.16	6.0-8.9	0.1-0.5	.43	.43			
Larkin	0-6	4-10	65-75	15-25	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.5-5.0	.28	.28	5	6	48
	6-14	4-10	65-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.5-4.0	.43	.43			
	14-22	4-10	65-75	18-30	1.25-1.45	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.49	.49			
	22-39	4-10	60-74	22-30	1.30-1.55	0.6-2	0.16-0.18	3.0-5.9	0.1-0.5	.49	.49			
	39-60	4-10	60-71	25-35	1.30-1.60	0.6-2	0.15-0.18	3.0-5.9	0.1-0.5	.49	.49			
Latahco	0-13	5-22	55-80	15-25	1.15-1.30	0.6-2	0.19-0.21	0.0-5.9	4.0-7.0	.32	.32	5	6	48
	13-20	5-45	45-75	6-20	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-26	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.5-1.5	.43	.43			
	26-42	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.3-1.0	.43	.43			
	42-51	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.2-0.5	.49	.49			
	51-62	5-25	55-75	20-30	1.30-1.50	0.6-2	0.17-0.20	0.0-5.9	0.2-0.5	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	53-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37			
	13-17	5-22	55-80	10-25	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	17-25	5-53	41-80	6-27	1.15-1.40	2-6	0.19-0.21	3.0-5.9	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.6-2	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Garfield	0-5	5-20	55-75	18-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	52-75	18-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	45-60	2-10	50-75	20-40	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
9356:														
Southwick	0-6	3-10	65-80	12-25	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	4.0-6.0	.37	.37	4	5	56
	6-13	3-10	65-80	12-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.5	.43	.43			
	13-28	3-10	65-80	15-25	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-2.0	.49	.49			
	28-31	3-10	74-85	8-16	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.55	.55			
	31-49	3-10	60-70	25-35	1.50-1.65	0.6-2	0.14-0.16	3.0-5.9	0.1-0.5	.43	.43			
	49-54	3-10	60-70	25-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
	54-70	3-10	60-75	22-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9356:														
Driscoll	0-5	3-10	65-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32	4	6	48
	5-10	3-10	65-80	15-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	10-17	3-10	65-79	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-5.9	0.5-2.0	.49	.49			
	17-24	3-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-1.0	.55	.55			
	24-26	3-10	67-82	10-23	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.64	.64			
	26-42	3-10	50-65	32-48	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.32	.32			
	42-49	3-10	50-65	32-45	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.37	.37			
	49-60	3-10	55-69	28-40	1.35-1.60	0.6-2	0.12-0.16	6.0-8.9	0.1-0.5	.43	.43			
Larkin	0-6	4-10	65-75	15-25	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.5-5.0	.28	.28	5	6	48
	6-14	4-10	65-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.5-4.0	.43	.43			
	14-22	4-10	65-75	18-30	1.25-1.45	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.49	.49			
	22-39	4-10	60-74	22-30	1.30-1.55	0.6-2	0.16-0.18	3.0-5.9	0.1-0.5	.49	.49			
	39-60	4-10	60-71	25-35	1.30-1.60	0.6-2	0.15-0.18	3.0-5.9	0.1-0.5	.49	.49			
Garfield	0-7	5-20	45-70	27-30	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.37	.37	5	6	48
	7-19	2-10	45-60	35-45	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	45-60	2-10	50-75	20-40	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	53-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37			
	13-17	5-22	55-80	10-25	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	17-25	5-53	41-80	6-27	1.15-1.40	2-6	0.19-0.21	3.0-5.9	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.6-2	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
9363:														
Larkin	0-6	4-10	65-75	15-25	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.5-5.0	.28	.28	5	6	48
	6-14	4-10	65-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.5-4.0	.43	.43			
	14-22	4-10	65-75	18-30	1.25-1.45	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.49	.49			
	22-39	4-10	60-74	22-30	1.30-1.55	0.6-2	0.16-0.18	3.0-5.9	0.1-0.5	.49	.49			
	39-60	4-10	60-71	25-35	1.30-1.60	0.6-2	0.15-0.18	3.0-5.9	0.1-0.5	.49	.49			
Driscoll	0-5	3-10	65-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32	4	6	48
	5-10	3-10	65-80	15-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	10-17	3-10	65-79	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-5.9	0.5-2.0	.49	.49			
	17-24	3-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-1.0	.55	.55			
	24-26	3-10	67-82	10-23	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.64	.64			
	26-42	3-10	50-65	32-48	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.32	.32			
	42-49	3-10	50-65	32-45	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.37	.37			
	49-60	3-10	55-69	28-40	1.35-1.60	0.6-2	0.12-0.16	6.0-8.9	0.1-0.5	.43	.43			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9363:														
Southwick----------	0-6	3-10	65-80	12-25	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	4.0-6.0	.37	.37	4	5	56
	6-13	3-10	65-80	12-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.5	.43	.43			
	13-28	3-10	65-80	15-25	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-2.0	.49	.49			
	28-31	3-10	74-85	8-16	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.55	.55			
	31-49	3-10	60-70	25-35	1.50-1.65	0.6-2	0.14-0.16	3.0-5.9	0.1-0.5	.43	.43			
	49-54	3-10	60-70	25-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
	54-70	3-10	60-75	22-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
Latahco----------	0-13	5-22	55-80	15-25	1.15-1.30	0.6-2	0.19-0.21	0.0-5.9	4.0-7.0	.32	.32	5	6	48
	13-20	5-45	45-75	6-20	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-26	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.5-1.5	.43	.43			
	26-42	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.3-1.0	.43	.43			
	42-51	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.2-0.5	.49	.49			
	51-62	5-25	55-75	20-30	1.30-1.50	0.6-2	0.17-0.20	0.0-5.9	0.2-0.5	.49	.49			
Cald----------	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	53-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37			
	13-17	5-22	55-80	10-25	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	17-25	5-53	41-80	6-27	1.15-1.40	2-6	0.19-0.21	3.0-5.9	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.6-2	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Garfield----------	0-5	5-20	55-75	18-25	1.10-1.30	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.43	.43	5	6	48
	5-8	5-20	52-75	18-30	1.15-1.35	0.6-2	0.19-0.21	3.0-5.9	1.0-3.0	.49	.49			
	8-19	2-10	45-60	35-45	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	45-60	2-10	50-75	20-40	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
9364:														
Larkin----------	0-6	4-10	65-75	15-25	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.5-5.0	.28	.28	5	6	48
	6-14	4-10	65-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.5-4.0	.43	.43			
	14-22	4-10	65-75	18-30	1.25-1.45	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.49	.49			
	22-39	4-10	60-74	22-30	1.30-1.55	0.6-2	0.16-0.18	3.0-5.9	0.1-0.5	.49	.49			
	39-60	4-10	60-71	25-35	1.30-1.60	0.6-2	0.15-0.18	3.0-5.9	0.1-0.5	.49	.49			
Southwick----------	0-6	3-10	65-80	12-25	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	4.0-6.0	.37	.37	4	5	56
	6-13	3-10	65-80	12-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.5	.43	.43			
	13-28	3-10	65-80	15-25	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-2.0	.49	.49			
	28-31	3-10	74-85	8-16	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.55	.55			
	31-49	3-10	60-70	25-35	1.50-1.65	0.6-2	0.14-0.16	3.0-5.9	0.1-0.5	.43	.43			
	49-54	3-10	60-70	25-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
	54-70	3-10	60-75	22-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9364:														
Driscoll	0-5	3-10	65-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32	4	6	48
	5-10	3-10	65-80	15-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	10-17	3-10	65-79	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-5.9	0.5-2.0	.49	.49			
	17-24	3-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-1.0	.55	.55			
	24-26	3-10	67-82	10-23	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.64	.64			
	26-42	3-10	50-65	32-48	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.32	.32			
	42-49	3-10	50-65	32-45	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.37	.37			
	49-60	3-10	55-69	28-40	1.35-1.60	0.6-2	0.12-0.16	6.0-8.9	0.1-0.5	.43	.43			
Latahco	0-13	5-22	55-80	15-25	1.15-1.30	0.6-2	0.19-0.21	0.0-5.9	4.0-7.0	.32	.32	5	6	48
	13-20	5-45	45-75	6-20	1.20-1.40	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	20-26	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.5-1.5	.43	.43			
	26-42	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.3-1.0	.43	.43			
	42-51	5-20	50-70	25-35	1.30-1.50	0.6-2	0.17-0.19	3.0-5.9	0.2-0.5	.49	.49			
	51-62	5-25	55-75	20-30	1.30-1.50	0.6-2	0.17-0.20	0.0-5.9	0.2-0.5	.49	.49			
Cald	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	53-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37			
	13-17	5-22	55-80	10-25	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	17-25	5-53	41-80	6-27	1.15-1.40	2-6	0.19-0.21	3.0-5.9	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.6-2	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
Taney	0-1	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	5-15	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-4	8-15	65-77	15-23	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	4.0-6.0	.32	.32			
	4-15	8-15	65-77	15-23	1.20-1.30	0.6-2	0.19-0.21	0.0-2.9	3.0-4.0	.43	.43			
	15-22	10-15	64-74	16-21	1.30-1.40	0.6-2	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49			
	22-29	10-15	62-70	17-23	1.40-1.50	0.6-2	0.19-0.21	0.0-2.9	0.8-1.3	.49	.49			
	29-31	10-15	65-80	10-20	1.45-1.55	0.6-2	0.19-0.21	0.0-2.9	0.3-1.0	.55	.55			
	31-53	7-15	59-69	24-34	1.60-1.75	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
	53-60	7-15	59-65	24-38	1.50-1.70	0.6-2	0.02-0.03	0.0-2.9	0.1-0.5	.43	.43			
9367:														
Larkin	0-6	4-10	65-75	15-25	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.5-5.0	.28	.28	5	6	48
	6-14	4-10	65-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.5-4.0	.43	.43			
	14-22	4-10	65-75	18-30	1.25-1.45	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.49	.49			
	22-39	4-10	60-74	22-30	1.30-1.55	0.6-2	0.16-0.18	3.0-5.9	0.1-0.5	.49	.49			
	39-60	4-10	60-71	25-35	1.30-1.60	0.6-2	0.15-0.18	3.0-5.9	0.1-0.5	.49	.49			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9367:														
Driscoll----------	0-5	3-10	65-80	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32	4	6	48
	5-10	3-10	65-80	15-25	1.20-1.40	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	10-17	3-10	65-79	18-25	1.25-1.40	0.6-2	0.18-0.20	0.0-5.9	0.5-2.0	.49	.49			
	17-24	3-10	65-80	15-25	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-1.0	.55	.55			
	24-26	3-10	67-82	10-23	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.64	.64			
	26-42	3-10	50-65	32-48	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.32	.32			
	42-49	3-10	50-65	32-45	1.40-1.60	0.06-0.2	0.12-0.16	6.0-8.9	0.1-0.5	.37	.37			
	49-60	3-10	55-69	28-40	1.35-1.60	0.6-2	0.12-0.16	6.0-8.9	0.1-0.5	.43	.43			
Garfield----------	0-7	5-20	45-70	27-30	1.20-1.40	0.6-2	0.19-0.21	3.0-5.9	1.5-3.5	.37	.37	5	6	48
	7-19	2-10	45-60	35-45	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.8	.43	.43			
	19-32	2-10	45-60	35-45	1.30-1.50	0.06-0.2	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	32-45	2-10	50-75	20-40	1.30-1.50	0.2-0.6	0.15-0.21	6.0-8.9	0.3-0.5	.37	.37			
	45-60	2-10	50-75	20-40	1.25-1.45	0.6-2	0.19-0.21	3.0-5.9	0.3-0.5	.43	.43			
Southwick----------	0-6	3-10	65-80	12-25	1.10-1.30	0.6-2	0.21-0.23	0.0-2.9	4.0-6.0	.37	.37	4	5	56
	6-13	3-10	65-80	12-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	2.0-4.5	.43	.43			
	13-28	3-10	65-80	15-25	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-2.0	.49	.49			
	28-31	3-10	74-85	8-16	1.35-1.50	0.6-2	0.17-0.19	0.0-2.9	0.3-0.8	.55	.55			
	31-49	3-10	60-70	25-35	1.50-1.65	0.6-2	0.14-0.16	3.0-5.9	0.1-0.5	.43	.43			
	49-54	3-10	60-70	25-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
	54-70	3-10	60-75	22-35	1.40-1.55	0.6-2	0.15-0.17	3.0-5.9	0.1-0.5	.49	.49			
Cald----------	0-7	5-22	56-80	15-22	1.05-1.20	0.6-2	0.19-0.21	3.0-5.9	4.0-8.0	.32	.32	5	5	56
	7-13	5-22	53-80	15-25	1.05-1.25	0.6-2	0.19-0.21	3.0-5.9	3.0-7.0	.37	.37			
	13-17	5-22	55-80	10-25	1.15-1.35	0.2-0.6	0.19-0.21	3.0-5.9	2.0-6.0	.43	.43			
	17-25	5-53	41-80	6-27	1.15-1.40	2-6	0.19-0.21	3.0-5.9	1.0-3.5	.49	.49			
	25-40	5-20	45-75	20-35	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	0.5-1.5	.49	.49			
	40-48	5-20	45-75	20-35	1.25-1.55	0.2-0.6	0.18-0.20	3.0-5.9	0.3-1.0	.55	.55			
	48-60	5-20	45-75	20-35	1.30-1.55	0.6-2	0.16-0.20	3.0-5.9	0.2-0.5	.43	.43			
9610:														
Schumacher----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	6	48
	1-8	10-12	64-75	15-24	1.00-1.20	0.6-2	0.21-0.23	0.0-2.9	4.0-7.0	.28	.28			
	8-20	10-15	60-69	17-25	1.10-1.30	0.6-2	0.18-0.20	0.0-2.9	2.0-6.0	.37	.37			
	20-27	12-20	54-68	20-26	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-3.0	.43	.43			
	27-34	15-25	46-60	21-29	1.30-1.45	0.6-2	0.14-0.16	3.0-5.9	0.5-2.0	.28	.43			
	34-41	20-28	42-55	25-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.5-1.5	.15	.43			
	41-47	20-27	43-56	24-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.3-1.0	.20	.43			
	47-57	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9610:														
Tekoa	0-7	5-10	70-80	10-20	0.70-0.95	0.6-2	0.16-0.20	0.0-2.9	3.0-7.0	.17	.37	2	5	56
	7-13	5-13	68-75	12-22	1.10-1.25	0.6-2	0.12-0.16	0.0-2.9	2.5-5.5	.15	.32			
	13-17	5-15	65-70	15-25	1.15-1.30	0.6-2	0.10-0.12	0.0-2.9	2.0-4.0	.10	.37			
	17-27	10-23	49-65	21-30	1.20-1.40	0.6-2	0.06-0.10	0.0-5.9	1.0-2.0	.15	.43			
	27-33	10-23	45-65	25-35	1.25-1.50	0.6-2	0.05-0.08	0.0-5.9	0.5-1.0	.10	.49			
	33-60	---	---	---	---	---	---	---	---	---	---			
Libertybutte	0-4	15-26	60-70	10-20	1.20-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-6.0	.20	.43	1	6	48
	4-11	15-26	49-70	15-25	1.30-1.50	0.6-2	0.12-0.16	0.0-2.9	1.5-5.0	.24	.49			
	11-16	15-26	49-65	15-25	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	1.0-3.0	.20	.49			
	16-19	---	---	---	---	---	---	---	---	---	---			
	19-60	---	---	---	---	---	---	---	---	---	---			
McCrosket	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	0.70-0.95	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-60	---	---	---	---	---	---	---	---	---	---			
Larkin	0-6	4-10	65-75	15-25	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.5-5.0	.28	.28	5	6	48
	6-14	4-10	65-75	15-25	1.15-1.35	0.6-2	0.19-0.21	0.0-2.9	1.5-4.0	.43	.43			
	14-22	4-10	65-75	18-30	1.25-1.45	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.49	.49			
	22-39	4-10	60-74	22-30	1.30-1.55	0.6-2	0.16-0.18	3.0-5.9	0.1-0.5	.49	.49			
	39-60	4-10	60-71	25-35	1.30-1.60	0.6-2	0.15-0.18	3.0-5.9	0.1-0.5	.49	.49			
9611:														
Schumacher	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	6	48
	1-8	10-12	64-75	15-24	1.00-1.20	0.6-2	0.21-0.23	0.0-2.9	4.0-7.0	.28	.28			
	8-20	10-15	60-73	17-25	1.10-1.30	0.6-2	0.18-0.20	0.0-2.9	2.0-6.0	.37	.37			
	20-27	12-20	54-68	20-26	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-3.0	.43	.43			
	27-34	15-25	46-59	21-29	1.30-1.45	0.6-2	0.14-0.16	3.0-5.9	0.5-2.0	.28	.43			
	34-41	20-28	42-55	25-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.5-1.5	.15	.43			
	41-47	20-27	43-56	24-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.3-1.0	.20	.43			
	47-57	---	---	---	---	---	---	---	---	---	---			
Tekoa	0-7	5-10	70-80	10-20	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	3.0-7.0	.17	.37	2	5	56
	7-13	5-13	68-75	12-22	1.10-1.25	0.6-2	0.12-0.16	0.0-2.9	2.5-5.5	.15	.32			
	13-17	5-15	65-70	15-25	1.15-1.30	0.6-2	0.10-0.12	0.0-2.9	2.0-4.0	.10	.37			
	17-27	10-23	49-65	21-30	1.20-1.40	0.6-2	0.06-0.10	0.0-5.9	1.0-2.0	.15	.43			
	27-33	10-23	45-65	25-35	1.25-1.50	0.6-2	0.05-0.08	0.0-5.9	0.5-1.0	.10	.49			
	33-43	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9611:														
Libertybutte--------	0-4	15-26	60-70	10-20	1.20-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-6.0	.20	.43	1	6	48
	4-11	15-26	49-70	15-25	1.30-1.50	0.6-2	0.12-0.16	0.0-2.9	1.5-5.0	.24	.49			
	11-16	15-26	49-65	15-25	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	1.0-3.0	.20	.49			
	16-19	---	---	---	---	---	---	---	---	---	---			
	19-29	---	---	---	---	---	---	---	---	---	---			
McCrosket----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
Arson, dry----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
9612:														
Libertybutte--------	0-4	15-26	60-70	10-20	1.20-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-6.0	.20	.43	1	6	48
	4-11	15-26	49-70	15-25	1.30-1.50	0.6-2	0.12-0.16	0.0-2.9	1.5-5.0	.24	.49			
	11-16	15-26	49-65	15-25	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	1.0-3.0	.20	.49			
	16-19	---	---	---	---	---	---	---	---	---	---			
	19-29	---	---	---	---	---	---	---	---	---	---			
Tekoa---------------	0-7	5-10	70-80	10-20	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	3.0-7.0	.17	.37	2	5	56
	7-13	5-13	68-75	12-22	1.10-1.25	0.6-2	0.12-0.16	0.0-2.9	2.5-5.5	.15	.32			
	13-17	5-15	65-70	15-25	1.15-1.30	0.6-2	0.10-0.12	0.0-2.9	2.0-4.0	.10	.37			
	17-27	10-23	49-65	21-30	1.20-1.40	0.6-2	0.06-0.10	0.0-5.9	1.0-2.0	.15	.43			
	27-33	10-23	45-65	25-35	1.25-1.50	0.6-2	0.05-0.08	0.0-5.9	0.5-1.0	.10	.49			
	33-43	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9612:														
Schumacher----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	6	48
	1-8	10-12	64-75	15-24	1.00-1.20	0.6-2	0.21-0.23	0.0-2.9	4.0-7.0	.28	.28			
	8-20	10-15	60-73	17-25	1.10-1.30	0.6-2	0.18-0.20	0.0-2.9	2.0-6.0	.37	.37			
	20-27	12-20	54-68	20-26	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-3.0	.43	.43			
	27-34	15-25	46-59	21-29	1.30-1.45	0.6-2	0.14-0.16	3.0-5.9	0.5-2.0	.28	.43			
	34-41	20-28	42-55	25-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.5-1.5	.15	.43			
	41-47	20-27	43-56	24-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.3-1.0	.20	.43			
	47-57	---	---	---	---	---	---	---	---	---	---			
McCrosket----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
9613:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Lotuspoint----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9613:														
Arson, dry----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
McCrosket----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
9614:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Lotuspoint----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9614:														
Cassyhill	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
McCrosket	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Pinecreek	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---			
	2-6	15-20	72-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.5-7.0	.24	.37			
	6-12	15-24	68-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.0-6.5	.28	.49			
	12-19	17-26	66-80	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	2.0-4.0	.24	.55			
	19-24	20-35	57-77	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.55			
	24-30	34-50	40-63	3-10	1.30-1.50	0.6-2	0.09-0.11	0.0-2.9	0.5-1.0	.17	.49			
	30-70	40-50	40-57	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.2-0.6	.05	.49			
9617:														
Tekoa	0-7	5-10	70-80	10-20	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	3.0-7.0	.17	.37	2	5	56
	7-13	5-13	68-75	12-22	1.10-1.25	0.6-2	0.12-0.16	0.0-2.9	2.5-5.5	.15	.32			
	13-17	5-15	65-70	15-25	1.15-1.30	0.6-2	0.10-0.12	0.0-2.9	2.0-4.0	.10	.37			
	17-27	10-23	49-65	21-30	1.20-1.40	0.6-2	0.06-0.10	0.0-5.9	1.0-2.0	.15	.43			
	27-33	10-23	45-65	25-35	1.25-1.50	0.6-2	0.05-0.08	0.0-5.9	0.5-1.0	.10	.49			
	33-43	---	---	---	---	---	---	---	---	---	---			
Schumacher	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	6	48
	1-8	10-12	64-75	15-24	1.00-1.20	0.6-2	0.21-0.23	0.0-2.9	4.0-7.0	.28	.28			
	8-20	10-15	60-73	17-25	1.10-1.30	0.6-2	0.18-0.20	0.0-2.9	2.0-6.0	.37	.37			
	20-27	12-20	54-68	20-26	1.20-1.40	0.6-2	0.18-0.20	0.0-2.9	1.0-3.0	.43	.43			
	27-34	15-25	46-59	21-29	1.30-1.45	0.6-2	0.14-0.16	3.0-5.9	0.5-2.0	.28	.43			
	34-41	20-28	42-55	25-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.5-1.5	.15	.43			
	41-47	20-27	43-56	24-30	1.40-1.50	0.6-2	0.07-0.10	3.0-5.9	0.3-1.0	.20	.43			
	47-57	---	---	---	---	---	---	---	---	---	---			
Libertybutte	0-4	15-26	60-70	10-20	1.20-1.40	0.6-2	0.14-0.16	0.0-2.9	2.0-6.0	.20	.43	1	6	48
	4-11	15-26	49-70	15-25	1.30-1.50	0.6-2	0.12-0.16	0.0-2.9	1.5-5.0	.24	.49			
	11-16	15-26	49-65	15-25	1.40-1.50	0.6-2	0.10-0.14	0.0-2.9	1.0-3.0	.20	.49			
	16-19	---	---	---	---	---	---	---	---	---	---			
	19-29	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9617:														
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
Arson, dry----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
9701:														
Ardenvoir----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			
McCrosket----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Lotuspoint----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9701:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Huckle, dry---------	0-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	2	134
	2-3	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	3-4	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	3.0-9.5	.32	.32			
	4-8	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.55	.55			
	8-19	20-27	65-73	5-10	0.65-0.90	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.43	.55			
	19-28	35-48	45-55	5-15	1.30-1.50	0.6-2	0.10-0.12	0.0-2.9	0.3-0.5	.17	.55			
	28-38	35-48	45-55	5-15	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.3	.15	.64			
	38-47	35-50	45-50	5-15	1.40-1.60	0.6-2	0.05-0.07	0.0-2.9	0.1-0.2	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Cassyhill-----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
9703:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	0.70-0.95	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	0.70-0.95	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Ardenvoir-----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	0.70-0.95	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	0.70-0.95	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	42-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-60	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9703:														
Lotuspoint----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.70-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.70-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
McCrosket----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	0.70-0.95	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-60	---	---	---	---	---	---	---	---	---	---			
Huckle, dry---------	0-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	2	134
	2-3	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	3-4	20-27	65-73	5-10	0.70-0.95	0.6-2	0.19-0.23	0.0-2.9	3.0-9.5	.32	.32			
	4-8	20-27	65-73	5-10	0.70-0.95	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.55	.55			
	8-19	20-27	65-73	5-10	0.70-0.95	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.43	.55			
	19-28	35-48	45-55	5-15	1.30-1.50	0.6-2	0.10-0.12	0.0-2.9	0.3-0.5	.17	.55			
	28-38	35-48	45-55	5-15	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.3	.15	.64			
	38-47	35-50	45-50	5-15	1.40-1.60	0.6-2	0.05-0.07	0.0-2.9	0.1-0.2	.10	.64			
	47-60	---	---	---	---	---	---	---	---	---	---			
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	0.70-0.95	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	0.70-0.95	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-60	---	---	---	---	---	---	---	---	---	---			
9704:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	0.70-0.95	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	0.70-0.95	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9704:														
Ardenvoir	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	0.70-0.95	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	0.70-0.95	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	42-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-60	---	---	---	---	---	---	---	---	---	---			
Lotuspoint	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.70-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.70-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
McCrosket	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	0.70-0.95	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-60	---	---	---	---	---	---	---	---	---	---			
Arson, dry	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	0.70-0.95	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	0.70-0.95	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Cassyhill	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	0.70-0.95	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	0.70-0.95	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-60	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9706:														
Ardenvoir----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Huckle----------	0-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	2	134
	2-3	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	3-4	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	3.0-9.5	.32	.32			
	4-8	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.55	.55			
	8-19	20-27	65-73	5-10	0.65-0.90	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.43	.55			
	19-28	35-48	45-55	5-15	1.30-1.50	0.6-2	0.10-0.12	0.0-2.9	0.3-0.5	.17	.55			
	28-38	35-48	45-55	5-15	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.3	.15	.64			
	38-47	35-50	45-50	5-15	1.40-1.60	0.6-2	0.05-0.07	0.0-2.9	0.1-0.2	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
McCrosket----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Saint Maries, dry---	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	5	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	20-25	67-72	5-12	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-8.0	.17	.37			
	5-9	20-25	67-72	5-12	1.00-1.20	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.24	.49			
	9-17	20-30	65-70	5-12	1.00-1.20	0.6-2	0.06-0.08	0.0-2.9	0.5-1.0	.10	.55			
	17-24	35-45	48-60	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.3-0.7	.10	.55			
	24-32	35-45	47-57	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.5	.10	.55			
	32-50	35-45	43-53	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	50-60	35-45	45-53	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9707:														
Huckle, dry---------	0-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	2	134
	2-3	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	3-4	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	3.0-9.5	.32	.32			
	4-8	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.55	.55			
	8-19	20-27	65-73	5-10	0.65-0.90	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.43	.55			
	19-28	35-48	45-55	5-15	1.30-1.50	0.6-2	0.10-0.12	0.0-2.9	0.3-0.5	.17	.55			
	28-38	35-48	45-55	5-15	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.3	.15	.64			
	38-47	35-50	45-50	5-15	1.40-1.60	0.6-2	0.05-0.07	0.0-2.9	0.1-0.2	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Ardenvoir-----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			
Ahrs----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-30	62-70	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	3.0-6.0	.20	.37			
	6-14	25-30	62-70	3-8	0.65-0.85	0.6-2	0.10-0.14	0.0-2.9	2.0-4.0	.20	.49			
	14-23	25-30	62-70	3-8	0.65-0.85	0.6-2	0.10-0.14	0.0-2.9	1.0-2.0	.20	.55			
	23-30	40-48	47-55	3-8	1.30-1.50	0.6-2	0.07-0.11	0.0-2.9	0.3-1.0	.17	.55			
	30-41	40-48	47-55	3-8	1.30-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.5	.10	.55			
	41-51	35-45	47-57	3-8	1.30-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	51-60	40-48	47-55	3-8	1.30-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.2	.10	.55			
Saint Maries, dry---	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	5	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	20-25	67-72	5-12	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-8.0	.17	.37			
	5-9	20-25	67-72	5-12	1.00-1.20	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.24	.49			
	9-17	20-30	65-70	5-12	1.00-1.20	0.6-2	0.06-0.08	0.0-2.9	0.5-1.0	.10	.55			
	17-24	35-45	48-60	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.3-0.7	.10	.55			
	24-32	35-45	47-57	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.5	.10	.55			
	32-50	35-45	43-53	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	50-60	35-45	45-53	5-12	1.40-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9707:														
Rasser	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---			
	2-4	18-25	60-70	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32			
	4-11	18-25	60-70	10-18	1.10-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	11-20	20-30	49-62	16-25	1.25-1.55	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.17	.43			
	20-41	18-25	45-60	22-32	1.35-1.60	0.6-2	0.08-0.12	0.0-2.9	0.3-0.8	.15	.43			
	41-60	18-25	41-55	24-35	1.45-1.60	0.6-2	0.05-0.07	0.0-2.9	0.2-0.4	.15	.37			
Honeyjones, warm	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	2	134
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	20-30	63-73	3-9	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	3.0-9.5	.37	.37			
	3-7	20-30	63-73	3-9	0.65-0.90	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	7-19	20-30	63-73	3-9	0.65-0.90	0.6-2	0.16-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-24	35-43	47-55	3-10	1.30-1.50	0.6-2	0.06-0.12	0.0-2.9	0.3-1.0	.17	.55			
	24-35	40-45	45-52	3-10	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.3	.10	.55			
	35-47	40-45	45-52	3-10	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.2	.05	.55			
	47-60	38-43	47-55	3-10	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.1	.05	.55			
9710:														
McCrosket	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Ardenvoir	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			
Ardenvoir, dry	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9710:														
Lotuspoint----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Arson----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Tekoa----------	0-7	5-10	70-80	10-20	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	3.0-7.0	.17	.37	2	5	56
	7-13	5-13	68-75	12-22	1.10-1.25	0.6-2	0.12-0.16	0.0-2.9	2.5-5.5	.15	.32			
	13-17	5-15	65-70	15-25	1.15-1.30	0.6-2	0.10-0.12	0.0-2.9	2.0-4.0	.10	.37			
	17-27	10-23	49-65	21-30	1.20-1.40	0.6-2	0.06-0.10	0.0-5.9	1.0-2.0	.15	.43			
	27-33	10-23	45-65	25-35	1.25-1.50	0.6-2	0.05-0.08	0.0-5.9	0.5-1.0	.10	.49			
	33-43	---	---	---	---	---	---	---	---	---	---			
9711:														
McCrosket----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			
Ardenvoir----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9711:														
Lotuspoint----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Arson---------------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Huckle, dry---------	0-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	2	134
	2-3	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	3-4	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	3.0-9.5	.32	.32			
	4-8	20-27	65-73	5-10	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	1.0-3.0	.55	.55			
	8-19	20-27	65-73	5-10	0.65-0.90	0.6-2	0.17-0.21	0.0-2.9	0.5-1.0	.43	.55			
	19-28	35-48	45-55	5-15	1.30-1.50	0.6-2	0.10-0.12	0.0-2.9	0.3-0.5	.17	.55			
	28-38	35-48	45-55	5-15	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.3	.15	.64			
	38-47	35-50	45-50	5-15	1.40-1.60	0.6-2	0.05-0.07	0.0-2.9	0.1-0.2	.10	.64			
	47-57	---	---	---	---	---	---	---	---	---	---			
Tekoa---------------	0-7	5-10	70-80	10-20	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	3.0-7.0	.17	.37	2	5	56
	7-13	5-13	68-75	12-22	1.10-1.25	0.6-2	0.12-0.16	0.0-2.9	2.5-5.5	.15	.32			
	13-17	5-15	65-70	15-25	1.15-1.30	0.6-2	0.10-0.12	0.0-2.9	2.0-4.0	.10	.37			
	17-27	10-23	49-65	21-30	1.20-1.40	0.6-2	0.06-0.10	0.0-5.9	1.0-2.0	.15	.43			
	27-33	10-23	45-65	25-35	1.25-1.50	0.6-2	0.05-0.08	0.0-5.9	0.5-1.0	.10	.49			
	33-43	---	---	---	---	---	---	---	---	---	---			
9712:														
McCrosket-----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-60	---	---			
	2-12	25-35	50-70	5-15	1.00-1.20	0.6-2	0.18-0.21	0.0-2.9	3.0-8.0	.20	.37			
	12-32	30-45	35-60	10-25	1.20-1.50	0.6-2	0.07-0.11	0.0-2.9	1.0-3.0	.10	.43			
	32-42	40-50	30-52	5-20	1.30-1.55	0.6-2	0.04-0.08	0.0-2.9	0.3-1.0	.10	.49			
	42-52	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9712:														
Tekoa	0-7	5-10	70-80	10-20	1.00-1.20	0.6-2	0.16-0.20	0.0-2.9	3.0-7.0	.17	.37	2	5	56
	7-13	5-13	68-75	12-22	1.10-1.25	0.6-2	0.12-0.16	0.0-2.9	2.5-5.5	.15	.32			
	13-17	5-15	65-70	15-25	1.15-1.30	0.6-2	0.10-0.12	0.0-2.9	2.0-4.0	.10	.37			
	17-27	10-23	49-65	21-30	1.20-1.40	0.6-2	0.06-0.10	0.0-5.9	1.0-2.0	.15	.43			
	27-33	10-23	45-65	25-35	1.25-1.50	0.6-2	0.05-0.08	0.0-5.9	0.5-1.0	.10	.49			
	33-43	---	---	---	---	---	---	---	---	---	---			
Ardenvoir	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			
Lotuspoint	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Cassyhill	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
Rasser	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---			
	2-4	18-25	60-70	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32			
	4-11	18-25	60-70	10-18	1.10-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	11-20	20-30	49-62	16-25	1.25-1.55	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.17	.43			
	20-41	18-25	45-60	22-32	1.35-1.60	0.6-2	0.08-0.12	0.0-2.9	0.3-0.8	.15	.43			
	41-60	18-25	41-55	24-35	1.45-1.60	0.6-2	0.05-0.07	0.0-2.9	0.2-0.4	.15	.37			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9735:														
Lotuspoint, stony surface	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.24	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Cassyhill	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
Pinecreek	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---			
	2-6	15-20	72-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.5-7.0	.24	.37			
	6-12	15-24	68-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.0-6.5	.28	.49			
	12-19	17-26	66-80	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	2.0-4.0	.24	.55			
	19-24	20-35	57-77	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.55			
	24-30	34-50	40-63	3-10	1.30-1.50	0.6-2	0.09-0.11	0.0-2.9	0.5-1.0	.17	.49			
	30-70	40-50	40-57	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.2-0.6	.05	.49			
Ardenvoir	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-6	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.16	0.0-2.9	3.0-9.0	.20	.32			
	6-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.49			
	11-19	30-50	35-55	5-15	1.30-1.50	0.6-2	0.13-0.16	0.0-2.9	0.3-1.0	.28	.49			
	19-39	35-50	40-55	5-10	1.35-1.55	0.6-2	0.07-0.11	0.0-2.9	0.1-0.3	.20	.49			
	39-48	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.55			
	48-58	---	---	---	---	---	---	---	---	---	---			
Rasser	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---			
	2-4	18-25	60-70	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32			
	4-11	18-25	60-70	10-18	1.10-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	11-20	20-30	49-62	16-25	1.25-1.55	0.6-2	0.10-0.14	0.0-2.9	0.5-1.0	.17	.43			
	20-41	18-25	45-60	22-32	1.35-1.60	0.6-2	0.08-0.12	0.0-2.9	0.3-0.8	.15	.43			
	41-60	18-25	41-55	24-35	1.45-1.60	0.6-2	0.05-0.07	0.0-2.9	0.2-0.4	.15	.37			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9770:														
Pinecreek	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	3	3	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-6	15-20	72-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.5-7.0	.24	.37			
	6-12	15-24	68-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.0-6.5	.28	.49			
	12-19	17-26	66-80	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	2.0-4.0	.24	.55			
	19-24	20-35	57-77	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.55			
	24-30	34-50	40-63	3-10	1.30-1.50	0.6-2	0.09-0.11	0.0-2.9	0.5-1.0	.17	.49			
	30-70	40-50	40-57	3-10	1.30-1.50	0.6-2	0.01-0.07	0.0-2.9	0.2-0.6	.05	.49			
Ahrs	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	3	3	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-6	25-30	62-70	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	3.0-6.0	.20	.37			
	6-14	25-30	62-70	3-8	0.65-0.85	0.6-2	0.10-0.14	0.0-2.9	2.0-4.0	.20	.49			
	14-23	25-30	62-70	3-8	0.65-0.85	0.6-2	0.10-0.14	0.0-2.9	1.0-2.0	.20	.55			
	23-30	40-48	47-55	3-8	1.30-1.50	0.6-2	0.07-0.11	0.0-2.9	0.3-1.0	.17	.55			
	30-41	40-48	47-55	3-8	1.30-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.5	.10	.55			
	41-51	35-45	47-57	3-8	1.30-1.50	0.6-2	0.04-0.08	0.0-2.9	0.1-0.3	.05	.55			
	51-59	40-48	47-55	3-8	1.30-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.2	.10	.55			
Lotuspoint	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	65-95	---	---	2	3	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-59	---	---	---	---	---	---	---	---	---	---			
Rasser	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	3	4	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-4	18-25	60-70	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32			
	4-11	18-25	60-70	10-18	1.10-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	11-20	20-30	49-62	16-25	1.25-1.55	0.6-2	0.09-0.14	0.0-2.9	0.5-1.0	.17	.43			
	20-41	18-25	45-60	22-32	1.35-1.60	0.6-2	0.07-0.12	0.0-2.9	0.3-0.8	.15	.43			
	41-59	18-25	41-55	24-35	1.45-1.60	0.6-2	0.04-0.07	0.0-2.9	0.2-0.4	.15	.37			
Cassyhill	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.03-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-59	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-59	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9775:														
Pinecreek, moist----	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	3	3	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-6	15-20	72-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.5-7.0	.24	.37			
	6-12	15-24	68-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.0-6.5	.28	.49			
	12-19	17-26	66-80	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	2.0-4.0	.24	.55			
	19-24	20-35	57-77	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.55			
	24-30	34-50	40-63	3-10	1.30-1.50	0.6-2	0.09-0.11	0.0-2.9	0.5-1.0	.17	.49			
	30-70	40-50	40-57	3-10	1.30-1.50	0.6-2	0.01-0.07	0.0-2.9	0.2-0.6	.05	.49			
Ahrs----------	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	3	3	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-6	25-30	62-70	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	3.0-6.0	.20	.37			
	6-14	25-30	62-70	3-8	0.65-0.85	0.6-2	0.10-0.14	0.0-2.9	2.0-4.0	.20	.49			
	14-23	25-30	62-70	3-8	0.65-0.85	0.6-2	0.10-0.14	0.0-2.9	1.0-2.0	.20	.55			
	23-30	40-48	47-55	3-8	1.30-1.50	0.6-2	0.07-0.11	0.0-2.9	0.3-1.0	.17	.55			
	30-41	40-48	47-55	3-8	1.30-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.5	.10	.55			
	41-51	35-45	47-57	3-8	1.30-1.50	0.6-2	0.04-0.08	0.0-2.9	0.1-0.3	.05	.55			
	51-59	40-48	47-55	3-8	1.30-1.50	0.6-2	0.05-0.08	0.0-2.9	0.1-0.2	.10	.55			
Lotuspoint----------	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	2	3	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-59	---	---	---	---	---	---	---	---	---	---			
Rasser----------	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	3	4	86
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-4	18-25	60-70	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	2.5-4.5	.32	.32			
	4-11	18-25	60-70	10-18	1.10-1.35	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.49	.49			
	11-20	20-30	49-62	16-25	1.25-1.55	0.6-2	0.09-0.14	0.0-2.9	0.5-1.0	.17	.43			
	20-41	18-25	45-60	22-32	1.35-1.60	0.6-2	0.07-0.12	0.0-2.9	0.3-0.8	.15	.43			
	41-59	18-25	41-55	24-35	1.45-1.60	0.6-2	0.04-0.07	0.0-2.9	0.2-0.4	.15	.37			
Honeyjones, warm----	0-1	---	---	---	0.10-0.30	6-100	0.10-0.30	---	60-95	---	---	3	2	134
	1-2	---	---	---	0.10-0.30	6-100	0.20-0.40	---	60-95	---	---			
	2-3	20-30	63-73	3-9	0.65-0.90	0.6-2	0.19-0.23	0.0-2.9	3.0-9.5	.37	.37			
	3-7	20-30	63-73	3-9	0.65-0.90	0.6-2	0.19-0.21	0.0-2.9	1.0-3.0	.55	.55			
	7-19	20-30	63-73	3-9	0.65-0.90	0.6-2	0.16-0.21	0.0-2.9	1.0-2.0	.55	.55			
	19-24	35-43	47-55	3-10	1.30-1.50	0.6-2	0.06-0.12	0.0-2.9	0.3-1.0	.17	.55			
	24-35	40-45	45-52	3-10	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.3	.10	.55			
	35-47	40-45	45-52	3-10	1.30-1.60	0.6-2	0.05-0.08	0.0-2.9	0.1-0.2	.05	.55			
	47-59	38-43	47-55	3-10	1.30-1.60	0.6-2	0.06-0.08	0.0-2.9	0.1-0.1	.05	.55			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9775:														
Rock outcrop--------	0-59	---	---	---	---	---	---	---	---	---	---	---	---	---
9776:														
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
Lotuspoint, stony surface----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.24	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
9778:														
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			
Lotuspoint----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.20	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9778:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Pinecreek----------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	3	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---			
	2-6	15-20	72-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.5-7.0	.24	.37			
	6-12	15-24	68-82	3-8	0.65-0.85	0.6-2	0.16-0.18	0.0-2.9	3.0-6.5	.28	.49			
	12-19	17-26	66-80	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	2.0-4.0	.24	.55			
	19-24	20-35	57-77	3-8	0.65-0.85	0.6-2	0.14-0.16	0.0-2.9	1.0-2.0	.28	.55			
	24-30	34-50	40-63	3-10	1.30-1.50	0.6-2	0.09-0.11	0.0-2.9	0.5-1.0	.17	.49			
	30-70	40-50	40-57	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.2-0.6	.05	.49			
Rock outcrop--------	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
9782:														
Ardenvoir, dry------	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	5	56
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-3	25-35	50-65	5-15	1.00-1.20	0.6-2	0.14-0.17	0.0-2.9	3.0-9.0	.20	.32			
	3-11	25-40	45-60	5-15	1.00-1.20	0.6-2	0.13-0.16	0.0-2.9	2.0-6.0	.20	.43			
	11-18	30-41	44-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	1.0-3.0	.15	.43			
	18-32	35-50	35-55	5-15	1.30-1.50	0.6-2	0.09-0.12	0.0-2.9	0.3-1.0	.10	.49			
	32-41	35-50	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.10	.49			
	41-60	35-55	40-55	5-10	1.35-1.55	0.6-2	0.05-0.08	0.0-2.9	0.1-0.3	.05	.55			
	60-70	---	---	---	---	---	---	---	---	---	---			
Cassyhill----------	0-1	---	---	1-10	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	1	6	48
	1-7	15-30	55-70	5-15	1.00-1.20	0.6-2	0.10-0.12	0.0-2.9	3.0-6.0	.15	.43			
	7-11	20-45	40-65	5-15	1.10-1.30	0.6-2	0.08-0.10	0.0-2.9	2.0-4.0	.15	.43			
	11-14	20-45	40-60	5-20	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.5-1.5	.05	.49			
	14-24	---	---	---	---	---	---	---	---	---	---			

Table 13.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*In/hr*	*In/in*	*Pct*	*Pct*					
9782:														
Lotuspoint, stony surface	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	2	3	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-4	25-30	62-70	3-8	0.65-0.95	0.6-2	0.14-0.16	0.0-2.9	4.0-8.0	.24	.43			
	4-10	25-30	62-68	3-8	0.65-0.95	0.6-2	0.12-0.16	0.0-2.9	2.0-4.0	.28	.49			
	10-16	25-30	60-68	3-10	1.30-1.50	0.6-2	0.06-0.08	0.0-2.9	0.3-0.8	.05	.64			
	16-26	25-45	45-65	3-10	1.30-1.50	0.6-2	0.05-0.07	0.0-2.9	0.1-0.5	.05	.64			
	26-36	---	---	---	---	---	---	---	---	---	---			
Arson, dry	0-1	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	60-95	---	---	4	4	86
	1-2	---	---	1-25	0.10-0.30	6-100	0.30-0.60	---	30-70	---	---			
	2-5	10-14	68-80	10-18	1.00-1.20	0.6-2	0.19-0.21	0.0-2.9	3.0-7.0	.32	.32			
	5-9	10-15	66-78	12-20	1.10-1.30	0.6-2	0.19-0.21	0.0-2.9	2.0-4.0	.43	.43			
	9-15	10-20	60-73	17-23	1.35-1.55	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.49	.49			
	15-38	15-25	50-65	18-26	1.45-1.65	0.6-2	0.14-0.16	0.0-2.9	0.3-1.0	.43	.43			
	38-43	15-30	49-62	18-26	1.45-1.65	0.6-2	0.07-0.10	0.0-2.9	0.2-0.6	.15	.55			
	43-57	20-30	49-62	16-26	1.50-1.70	0.6-2	0.06-0.10	0.0-2.9	0.2-0.5	.20	.55			
	57-67	---	---	---	---	---	---	---	---	---	---			
Rock outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---
W:														
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1001:								
Bridgeson	0-12	20-35	---	6.6-7.8	0	0	0	0
	12-20	10-30	---	6.6-7.8	0	0	0	0
	20-31	10-30	---	6.6-7.8	0	0	0	0
	31-40	10-30	---	6.6-7.8	0	0	0	0
	40-60	10-30	---	6.6-7.8	0	0	0	0
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
Wolfeson	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
Pywell	0-6	50-100	15-40	4.5-6.0	0	0	0	0
	6-14	50-100	15-40	4.5-6.0	0	0	0	0
	14-27	40-80	15-30	4.5-6.0	0	0	0	0
	27-31	75-125	10-55	4.5-5.5	0	0	0	0
	31-45	75-125	20-55	4.5-6.0	0	0	0	0
	45-60	75-125	---	4.5-6.0	0	0	0	0
Endoaquolls	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-60	0.0-10	---	6.1-7.3	0	0	0	0
1010:								
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1010:								
Cald	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	7.8-7.3	0	0	0	0
	40-48	15-30	---	7.8-7.8	0	0	0	0
	48-60	15-35	---	7.8-7.8	0	0	0	0
Latah	0-10	18-28	---	6.1-7.8	0	0	0	0
	10-14	15-25	---	6.1-7.8	0	0	0	0
	14-19	12-25	---	6.6-7.8	0	0	0	0
	19-22	10-20	---	6.6-7.8	0	0	0	0
	22-31	25-35	---	6.6-8.4	0	0	0	0
	31-38	25-35	---	6.6-8.4	0	0	0	0
	38-60	25-35	---	6.6-7.8	0	0	0	0
Mondovi	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0
Endoaquolls	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0
1015:								
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Cald	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	7.8-7.3	0	0	0	0
	40-48	15-30	---	7.8-7.8	0	0	0	0
	48-60	15-35	---	7.8-7.8	0	0	0	0
Endoaquolls	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1015:								
Mondovi	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
1020:								
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Saltese	0-5	50-110	---	4.5-7.3	0	0	0	0
	5-12	50-175	---	4.5-7.3	0	0	0	0
	12-16	50-175	---	4.5-7.3	0	0	0	0
	16-24	50-175	---	4.5-7.3	0	0	0	0
	24-40	50-175	---	4.5-7.3	0	0	0	0
	40-60	50-175	---	4.5-7.3	0	0	0	0
Water	---	---	---	---	---	---	---	---
1021:								
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1021:								
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Saltese	0-5	50-110	---	4.5-7.3	0	0	0	0
	5-12	50-175	---	4.5-7.3	0	0	0	0
	12-16	50-175	---	4.5-7.3	0	0	0	0
	16-24	50-175	---	4.5-7.3	0	0	0	0
	24-40	50-175	---	4.5-7.3	0	0	0	0
	40-60	50-175	---	4.5-7.3	0	0	0	0
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Water	---	---	---	---	---	---	---	---
1030:								
Emdent	0-6	20-30	---	8.5-9.0	1-5	0	1.0-3.0	5-15
	6-9	20-30	---	8.5-9.0	1-5	0	1.0-3.0	5-15
	9-13	15-25	---	7.9-9.0	1-5	0	0.0-3.0	5-10
	13-21	5.0-15	---	7.9-9.0	0	0	0	0
	21-28	5.0-10	---	7.9-9.0	0	0	0	0
	28-60	2.0-8.0	---	7.9-9.0	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1030:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Saltese	0-5	50-110	---	4.5-7.3	0	0	0	0
	5-12	50-175	---	4.5-7.3	0	0	0	0
	12-16	50-175	---	4.5-7.3	0	0	0	0
	16-24	50-175	---	4.5-7.3	0	0	0	0
	24-40	50-175	---	4.5-7.3	0	0	0	0
	40-60	50-175	---	4.5-7.3	0	0	0	0
1040:								
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Peone	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1050:								
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Pywell	0-6	50-100	15-40	4.5-6.0	0	0	0	0
	6-14	50-100	15-40	4.5-6.0	0	0	0	0
	14-27	40-80	15-30	4.5-6.0	0	0	0	0
	27-31	75-125	10-55	4.5-5.5	0	0	0	0
	31-45	75-125	20-55	4.5-6.0	0	0	0	0
	45-60	75-125	---	4.5-6.0	0	0	0	0
1070:								
Mondovi	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1070:								
Endoaquolls	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
1080:								
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
1081:								
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1081:								
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Opportunity	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
1090:								
Peone	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0
Saltese	0-5	50-110	---	4.5-7.3	0	0	0	0
	5-12	50-175	---	4.5-7.3	0	0	0	0
	12-16	50-175	---	4.5-7.3	0	0	0	0
	16-24	50-175	---	4.5-7.3	0	0	0	0
	24-40	50-175	---	4.5-7.3	0	0	0	0
	40-60	50-175	---	4.5-7.3	0	0	0	0
Endoaquolls	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Peone, drained	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0
Water	---	---	---	---	---	---	---	---
1091:								
Peone, drained	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1091:								
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Cedonia	0-6	13-28	---	6.1-7.3	0	0	0	0
	6-12	13-29	---	6.1-7.3	0	0	0	0
	12-27	9.0-25	---	7.4-8.4	1-5	0	0	0
	27-33	9.0-25	---	7.4-8.4	1-5	0	0	0
	33-60	13-33	---	7.4-9.0	2-6	0	0.0-1.0	0
Endoaquolls	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0
1092:								
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
Bellslake	0-6	25-40	---	5.1-6.5	0	0	0	0
	6-10	20-35	---	5.1-6.5	0	0	0	0
	10-18	20-35	---	5.1-6.5	0	0	0	0
	18-30	25-40	---	5.1-6.5	0	0	0	0
	30-48	40-80	---	5.1-6.5	0	0	0	0
	48-55	50-100	---	5.1-6.5	0	0	0	0
	55-65	50-100	---	5.1-6.5	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Pywell	0-6	50-100	15-40	4.5-6.0	0	0	0	0
	6-14	50-100	15-40	4.5-6.0	0	0	0	0
	14-27	40-80	15-30	4.5-6.0	0	0	0	0
	27-31	75-125	10-55	4.5-5.5	0	0	0	0
	31-45	75-125	20-55	4.5-6.0	0	0	0	0
	45-60	75-125	---	4.5-6.0	0	0	0	0
Water	---	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1120:								
Lovell	0-2	23-33	---	5.6-6.5	0	0	0	0
	2-8	18-28	---	5.6-6.5	0	0	0	0
	8-19	13-23	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-30	15-25	---	6.1-7.3	0	0	0	0
	30-42	20-30	---	6.6-7.8	0	0	0	0
	42-52	20-30	---	6.6-7.8	0	0	0	0
	52-61	20-30	---	6.6-7.8	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-25	---	5.6-7.3	0	0	0	0
	5-9	12-22	---	5.6-7.3	0	0	0	0
	9-16	10-20	8.0-10	5.1-6.5	0	0	0	0
	16-25	8.0-18	7.0-10	5.1-6.5	0	0	0	0
	25-27	5.0-15	6.0-13	5.1-6.5	0	0	0	0
	27-39	15-25	---	5.6-7.3	0	0	0	0
	39-65	15-25	---	6.1-7.3	0	0	0	0
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
1130:								
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1130:								
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Wolfeson	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
1200:								
Endoaquolls	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-60	0.0-10	---	6.1-7.3	0	0	0	0
Fluvaquents	0-1	0.0-15	---	6.1-7.3	0	0	0	0
	1-4	0.0-15	---	6.1-7.3	0	0	0	0
	4-12	0.0-15	---	5.6-7.3	0	0	0	0
	12-21	0.0-15	---	5.6-7.3	0	0	0	0
	21-31	0.0-15	---	5.6-7.3	0	0	0	0
	31-40	0.0-15	---	5.6-7.3	0	0	0	0
	40-60	0.0-15	---	5.6-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Saltese	0-5	50-110	---	4.5-7.3	0	0	0	0
	5-12	50-175	---	4.5-7.3	0	0	0	0
	12-16	50-175	---	4.5-7.3	0	0	0	0
	16-24	50-175	---	4.5-7.3	0	0	0	0
	24-40	50-175	---	4.5-7.3	0	0	0	0
	40-60	50-175	---	4.5-7.3	0	0	0	0
Water	---	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1203:								
Haploxerolls, channeled	0-4	15-30	---	6.6-7.8	0	0	0	0
	4-14	10-30	---	6.6-7.8	0	0	0	0
	14-30	5.0-25	---	6.6-7.8	0	0	0	0
	30-40	4.0-20	---	6.6-7.8	0	0	0	0
	40-57	2.0-20	---	6.6-7.8	0	0	0	0
	57-60	2.0-20	---	6.6-7.8	0	0	0	0
Mondovi	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0
Endoaquolls	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-60	0.0-10	---	6.1-7.3	0	0	0	0
Riverwash	0-60	---	---	---	---	---	---	---
Water	---	---	---	---	---	---	---	---
1300:								
Aquepts, frigid	0-4	10-15	---	6.1-7.3	0	0	0	0
	4-12	10-15	---	6.1-7.3	0	0	0	0
	12-17	5.0-15	---	5.6-7.3	0	0	0	0
	17-27	5.0-10	---	5.6-7.3	0	0	0	0
	27-40	0.0-4.0	---	5.6-7.3	0	0	0	0
	40-50	0.0-4.0	---	5.6-7.3	0	0	0	0
	50-60	0.0-4.0	---	5.6-7.3	0	0	0	0
Lovell	0-2	23-33	---	5.6-6.5	0	0	0	0
	2-8	18-28	---	5.6-6.5	0	0	0	0
	8-19	13-23	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-30	15-25	---	6.1-7.3	0	0	0	0
	30-42	20-30	---	6.6-7.8	0	0	0	0
	42-52	20-30	---	6.6-7.8	0	0	0	0
	52-61	20-30	---	6.6-7.8	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
1300:								
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Pywell	0-6	50-100	15-40	4.5-6.0	0	0	0	0
	6-14	50-100	15-40	4.5-6.0	0	0	0	0
	14-27	40-80	15-30	4.5-6.0	0	0	0	0
	27-31	75-125	10-55	4.5-5.5	0	0	0	0
	31-45	75-125	20-55	4.5-6.0	0	0	0	0
	45-60	75-125	---	4.5-6.0	0	0	0	0
Water	---	---	---	---	---	---	---	---
2040:								
Klickson, mass wasted	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Blinn, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-12	5.0-20	---	6.1-7.3	0	0	0	0
	12-24	10-15	---	6.1-7.3	0	0	0	0
	24-39	5.0-15	---	6.1-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2040:								
Xerolls, frigid, mass wasted	0-4	10-25	---	6.1-7.3	0	0	0	0
	4-9	10-25	---	6.1-7.3	0	0	0	0
	9-16	15-30	---	6.1-7.3	0	0	0	0
	16-24	0.0-10	---	6.1-7.3	0	0	0	0
	24-60	0.0-10	---	6.1-7.3	0	0	0	0
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
2041:								
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Blinn, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-12	5.0-20	---	6.1-7.3	0	0	0	0
	12-24	10-15	---	6.1-7.3	0	0	0	0
	24-39	5.0-15	---	6.1-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Xerolls, frigid, mass wasted	0-4	10-25	---	6.1-7.3	0	0	0	0
	4-9	10-25	---	6.1-7.3	0	0	0	0
	9-16	15-30	---	6.1-7.3	0	0	0	0
	16-24	0.0-10	---	6.1-7.3	0	0	0	0
	24-60	0.0-10	---	6.1-7.3	0	0	0	0
2042:								
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2042:								
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Rubble land	0-60	---	---	---	---	---	---	---
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
2043:								
Klickson, mass wasted	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Speigle, mass wasted	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2043:								
Rock outcrop	0-60	---	---	---	---	---	---	---
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Xerolls, frigid, mass wasted	0-4	10-25	---	6.1-7.3	0	0	0	0
	4-9	10-25	---	6.1-7.3	0	0	0	0
	9-16	15-30	---	6.1-7.3	0	0	0	0
	16-24	0.0-10	---	6.1-7.3	0	0	0	0
	24-60	0.0-10	---	6.1-7.3	0	0	0	0
Fan Lake	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
2044:								
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2044:								
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---
2045:								
Marble, mass wasted	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Speigle, mass wasted	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Klickson, mass wasted	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
2046:								
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2046:								
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Rubble land	0-60	---	---	---	---	---	---	---
2050:								
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
2051:								
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2051:								
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
2052:								
Brincken, moist, mass wasted	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Speigle, mass wasted	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Gibbs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-22	---	6.1-7.3	0	0	0	0
	5-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-31	10-20	---	6.1-7.3	0	0	0	0
	31-35	10-18	---	6.1-7.3	0	0	0	0
	35-45	---	---	---	---	---	---	---
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2052:								
Klickson, mass wasted	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
2053:								
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2054:								
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Rubble land	0-60	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
2070:								
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Gibbs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-22	---	6.1-7.3	0	0	0	0
	5-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-31	10-20	---	6.1-7.3	0	0	0	0
	31-35	10-18	---	6.1-7.3	0	0	0	0
	35-45	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2070:								
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Stutler	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-19	---	6.1-6.5	0	0	0	0
	5-12	7.0-16	---	6.1-6.5	0	0	0	0
	12-22	4.0-14	---	6.1-6.5	0	0	0	0
	22-32	4.0-13	---	6.1-7.3	0	0	0	0
	32-42	4.0-13	---	6.6-7.3	0	0	0	0
	42-61	0.0-6.0	---	6.6-7.3	0	0	0	0
2071:								
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Gibbs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-22	---	6.1-7.3	0	0	0	0
	5-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-31	10-20	---	6.1-7.3	0	0	0	0
	31-35	10-18	---	6.1-7.3	0	0	0	0
	35-45	---	---	---	---	---	---	---
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2080:								
Gibbs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-22	---	6.1-7.3	0	0	0	0
	5-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-31	10-20	---	6.1-7.3	0	0	0	0
	31-35	10-18	---	6.1-7.3	0	0	0	0
	35-45	---	---	---	---	---	---	---
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Lacy	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
2081:								
Gibbs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-22	---	6.1-7.3	0	0	0	0
	5-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-31	10-20	---	6.1-7.3	0	0	0	0
	31-35	10-18	---	6.1-7.3	0	0	0	0
	35-45	---	---	---	---	---	---	---
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2081:								
Brincken, moist------	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Driscoll----------	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Speigle----------	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---
Lacy----------	0-2	15-26	---	6.1-7.3	0	0	0	0
	2-6	18-25	---	6.1-7.3	0	0	0	0
	6-10	18-25	---	6.1-7.3	0	0	0	0
	10-16	18-27	---	6.1-7.3	0	0	0	0
	16-26	---	---	---	---	---	---	---
2085:								
Tucannon----------	0-5	10-20	---	6.1-7.3	0	0	0	0
	5-10	15-20	---	6.1-7.8	0	0	0	0
	10-21	15-20	---	7.4-8.4	0	0	0	0
	21-29	15-20	---	6.6-7.8	0	0	0	0
	29-39	---	---	---	---	---	---	---
Cheney----------	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Cocolalla----------	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Rockly----------	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2085:								
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
2090:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Tucannon	0-5	10-20	---	6.1-7.3	0	0	0	0
	5-10	15-20	---	6.1-7.8	0	0	0	0
	10-21	15-20	---	7.4-8.4	0	0	0	0
	21-29	15-20	---	6.6-7.8	0	0	0	0
	29-39	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
2160:								
Scoap	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-17	5.0-15	---	6.1-7.3	0	0	0	0
	17-30	5.0-12	---	6.1-7.3	0	0	0	0
	30-47	2.0-4.0	---	6.1-7.3	0	0	0	0
	47-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Rubble land	0-60	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
2160:								
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
3010:								
Alecanyon, very stony surface	0-7	7.0-12	---	6.1-7.3	0	0	0	0
	7-11	5.0-9.0	---	6.1-7.3	0	0	0	0
	11-16	0.0-10	---	6.1-7.8	0	0	0	0
	16-39	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
	39-60	0.0-3.0	---	6.6-7.8	0-3	0	0.0-1.0	0
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
3015:								
Seaboldt, dry	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3015:								
Brincken, moist------	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Narcisse----------	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---
3020:								
Bong----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Marble----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Phoebe, dry----------	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Hardesty----------	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marblespring---------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
3022:								
Bong, moist----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3022:								
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3024:								
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3025:								
Bong, moist----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Marble---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Phoebe---------------	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Spens----------------	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Hardesty-------------	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3026:								
Phoebe, dry----------	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Bong-----------------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Marble---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty-------------	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3030:								
Bonner	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-5	15-35	---	6.1-7.3	0	0	0	0
	5-9	10-25	---	6.1-7.3	0	0	0	0
	9-19	10-25	---	6.1-7.3	0	0	0	0
	19-27	0.0-5.0	---	6.1-7.3	0	0	0	0
	27-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Stien, very stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	20-30	---	6.1-6.5	0	0	0	0
	3-8	15-25	---	6.1-6.5	0	0	0	0
	8-16	15-25	---	5.6-6.5	0	0	0	0
	16-24	15-25	---	5.1-6.5	0	0	0	0
	24-31	2.0-6.0	---	5.6-6.5	0	0	0	0
	31-48	1.0-5.0	---	5.6-6.5	0	0	0	0
	48-60	0.0-3.0	---	5.6-6.5	0	0	0	0
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
3031:								
Bonner	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-5	15-35	---	6.1-7.3	0	0	0	0
	5-9	10-25	---	6.1-7.3	0	0	0	0
	9-19	10-25	---	6.1-7.3	0	0	0	0
	19-27	0.0-5.0	---	6.1-7.3	0	0	0	0
	27-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3031:								
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Stien, very stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	20-30	---	6.1-6.5	0	0	0	0
	3-8	15-25	---	6.1-6.5	0	0	0	0
	8-16	15-25	---	5.6-6.5	0	0	0	0
	16-24	15-25	---	5.1-6.5	0	0	0	0
	24-31	2.0-6.0	---	5.6-6.5	0	0	0	0
	31-48	1.0-5.0	---	5.6-6.5	0	0	0	0
	48-60	0.0-3.0	---	5.6-6.5	0	0	0	0
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3039:								
Alecanyon	0-7	7.0-18	---	6.1-7.3	0	0	0	0
	7-11	5.0-15	---	6.1-7.3	0	0	0	0
	11-16	0.0-10	---	6.1-7.8	0	0	0	0
	16-39	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
	39-60	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Deno	0-4	7.0-17	---	6.1-7.3	0	0	0	0
	4-14	7.0-17	---	6.1-7.3	0	0	0	0
	14-28	7.0-15	---	7.4-8.4	0	0	0	0
	28-40	7.0-15	---	7.4-8.4	0	0	0	0
	40-48	3.0-11	---	7.4-8.4	0	0	0	0
	48-58	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3039:								
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
3040:								
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Alecanyon	0-7	7.0-18	---	6.1-7.3	0	0	0	0
	7-11	5.0-15	---	6.1-7.3	0	0	0	0
	11-16	0.0-10	---	6.1-7.8	0	0	0	0
	16-39	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
	39-60	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
3041:								
Alecanyon, very stony surface	0-7	7.0-12	---	6.1-7.3	0	0	0	0
	7-11	5.0-9.0	---	6.1-7.3	0	0	0	0
	11-16	0.0-10	---	6.1-7.8	0	0	0	0
	16-39	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
	39-60	0.0-3.0	---	6.6-7.8	0-3	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3041:								
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
3042:								
Alecanyon, very stony surface	0-7	7.0-12	---	6.1-7.3	0	0	0	0
	7-11	5.0-9.0	---	6.1-7.3	0	0	0	0
	11-16	0.0-10	---	6.1-7.8	0	0	0	0
	16-39	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
	39-60	0.0-3.0	---	6.6-7.8	0-3	0	0.0-1.0	0
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Tucannon	0-5	10-20	---	6.1-7.3	0	0	0	0
	5-10	15-20	---	6.1-7.8	0	0	0	0
	10-21	15-20	---	7.4-8.4	0	0	0	0
	21-29	15-20	---	6.6-7.8	0	0	0	0
	29-39	---	---	---	---	---	---	---
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3044:								
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Alecanyon	0-7	7.0-18	---	6.1-7.3	0	0	0	0
	7-11	5.0-15	---	6.1-7.3	0	0	0	0
	11-16	0.0-10	---	6.1-7.8	0	0	0	0
	16-39	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
	39-60	0.0-5.0	---	6.6-7.8	0-3	0	0.0-1.0	0
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Seaboldt, dry	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
3045:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Deno	0-4	7.0-17	---	6.1-7.3	0	0	0	0
	4-14	7.0-17	---	6.1-7.3	0	0	0	0
	14-28	7.0-15	---	7.4-8.4	0	0	0	0
	28-40	7.0-15	---	7.4-8.4	0	0	0	0
	40-48	3.0-11	---	7.4-8.4	0	0	0	0
	48-58	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3045:								
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Seaboldt, dry	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
3046:								
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Seaboldt, dry	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3046:								
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
3047:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Deno	0-4	7.0-17	---	6.1-7.3	0	0	0	0
	4-14	7.0-17	---	6.1-7.3	0	0	0	0
	14-28	7.0-15	---	7.4-8.4	0	0	0	0
	28-40	7.0-15	---	7.4-8.4	0	0	0	0
	40-48	3.0-11	---	7.4-8.4	0	0	0	0
	48-58	---	---	---	---	---	---	---
Rock outcrop, cliffs	0-60	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
3048:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3048:								
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Water	---	---	---	---	---	---	---	---
3049:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Rock outcrop, cliffs	0-60	---	---	---	---	---	---	---
Deno	0-4	7.0-17	---	6.1-7.3	0	0	0	0
	4-14	7.0-17	---	6.1-7.3	0	0	0	0
	14-28	7.0-15	---	7.4-8.4	0	0	0	0
	28-40	7.0-15	---	7.4-8.4	0	0	0	0
	40-48	3.0-11	---	7.4-8.4	0	0	0	0
	48-58	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3049:								
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Water	---	---	---	---	---	---	---	---
3054:								
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Clayton, silty subsoil	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	8.0-20	---	6.1-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Phoebe, dry	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3055:								
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Clayton, silty subsoil	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	8.0-20	---	6.1-7.3	0	0	0	0
Endoaquolls	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-60	0.0-10	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
3056:								
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3056:								
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
3057:								
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3060:								
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Skalan	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---
3061:								
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3061:								
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Skalan	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---
Endoaquolls	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-60	0.0-10	---	6.1-7.3	0	0	0	0
3062:								
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Skalan	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3062:								
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
3070:								
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Stien, very stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	20-30	---	6.1-6.5	0	0	0	0
	3-8	15-25	---	6.1-6.5	0	0	0	0
	8-16	15-25	---	5.6-6.5	0	0	0	0
	16-24	15-25	---	5.1-6.5	0	0	0	0
	24-31	2.0-6.0	---	5.6-6.5	0	0	0	0
	31-48	1.0-5.0	---	5.6-6.5	0	0	0	0
	48-60	0.0-3.0	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3070:								
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
3071:								
Stien, very stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	20-30	---	6.1-6.5	0	0	0	0
	3-8	15-25	---	6.1-6.5	0	0	0	0
	8-16	15-25	---	5.6-6.5	0	0	0	0
	16-24	15-25	---	5.1-6.5	0	0	0	0
	24-31	2.0-6.0	---	5.6-6.5	0	0	0	0
	31-48	1.0-5.0	---	5.6-6.5	0	0	0	0
	48-60	0.0-3.0	---	5.6-6.5	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3072:								
Stien, very stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	20-30	---	6.1-6.5	0	0	0	0
	3-8	15-25	---	6.1-6.5	0	0	0	0
	8-16	15-25	---	5.6-6.5	0	0	0	0
	16-24	15-25	---	5.1-6.5	0	0	0	0
	24-31	2.0-6.0	---	5.6-6.5	0	0	0	0
	31-48	1.0-5.0	---	5.6-6.5	0	0	0	0
	48-60	0.0-3.0	---	5.6-6.5	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
3073:								
Stien, very stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	20-30	---	6.1-6.5	0	0	0	0
	3-8	15-25	---	6.1-6.5	0	0	0	0
	8-16	15-25	---	5.6-6.5	0	0	0	0
	16-24	15-25	---	5.1-6.5	0	0	0	0
	24-31	2.0-6.0	---	5.6-6.5	0	0	0	0
	31-48	1.0-5.0	---	5.6-6.5	0	0	0	0
	48-60	0.0-3.0	---	5.6-6.5	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3073:								
Blackprince----------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Scrabblers-----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Wapal----------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
3074:								
Eloika, moist--------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Kaniksu----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
Scrabblers-----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Bonner----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-5	15-35	---	6.1-7.3	0	0	0	0
	5-9	10-25	---	6.1-7.3	0	0	0	0
	9-19	10-25	---	6.1-7.3	0	0	0	0
	19-27	0.0-5.0	---	6.1-7.3	0	0	0	0
	27-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3074:								
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
Fan Lake	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Wolfeson	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
3080:								
Opportunity	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Garrison	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3080:								
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
3081:								
Opportunity	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Garrison	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
3082:								
Opportunity	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Garrison	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3082:								
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3083:								
Garrison	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Opportunity	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
3084:								
Garrison	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3084:								
Garrison, extremely stony surface-------	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Opportunity----------	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Springdale----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
3085:								
Garrison----------	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Opportunity----------	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Springdale----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Urban land----------	---	---	---	---	---	---	---	---
3087:								
Garrison, extremely stony surface-------	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Garrison----------	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3087:								
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Opportunity	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Urban land	---	---	---	---	---	---	---	---
3090:								
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3090:								
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Endoaquolls	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-60	0.0-10	---	6.1-7.3	0	0	0	0
3091:								
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Glenrose, cobbly surface	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3091:								
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
3101:								
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0
Blinn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-12	5.0-20	---	6.1-7.3	0	0	0	0
	12-24	10-15	---	6.1-7.3	0	0	0	0
	24-39	5.0-15	---	6.1-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
3102:								
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3102:								
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
3110:								
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Stutler	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-19	---	6.1-6.5	0	0	0	0
	5-12	7.0-16	---	6.1-6.5	0	0	0	0
	12-22	4.0-14	---	6.1-6.5	0	0	0	0
	22-32	4.0-13	---	6.1-7.3	0	0	0	0
	32-42	4.0-13	---	6.6-7.3	0	0	0	0
	42-61	0.0-6.0	---	6.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3110:								
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Seaboldt, warm	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
3112:								
Stutler, extremely bouldery surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-19	---	6.1-6.5	0	0	0	0
	5-12	7.0-16	---	6.1-6.5	0	0	0	0
	12-22	4.0-14	---	6.1-6.5	0	0	0	0
	22-32	4.0-13	---	6.1-7.3	0	0	0	0
	32-42	4.0-13	---	6.6-7.3	0	0	0	0
	42-61	0.0-6.0	---	6.6-7.3	0	0	0	0
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3112:								
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
3113:								
Stutler	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-19	---	6.1-6.5	0	0	0	0
	5-12	7.0-16	---	6.1-6.5	0	0	0	0
	12-22	4.0-14	---	6.1-6.5	0	0	0	0
	22-32	4.0-13	---	6.1-7.3	0	0	0	0
	32-42	4.0-13	---	6.6-7.3	0	0	0	0
	42-61	0.0-6.0	---	6.6-7.3	0	0	0	0
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
3114:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3114:								
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Water	---	---	---	---	---	---	---	---
3115:								
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Stutler	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-19	---	6.1-6.5	0	0	0	0
	5-12	7.0-16	---	6.1-6.5	0	0	0	0
	12-22	4.0-14	---	6.1-6.5	0	0	0	0
	22-32	4.0-13	---	6.1-7.3	0	0	0	0
	32-42	4.0-13	---	6.6-7.3	0	0	0	0
	42-61	0.0-6.0	---	6.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3115:								
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
3116:								
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
3117:								
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3117:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Rubble land	0-60	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
3118:								
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Water	---	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3120:								
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
3121:								
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3122:								
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Marblespring	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
3123:								
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3123:								
Spens, cool	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3126:								
Rock outcrop	0-60	---	---	---	---	---	---	---
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---
3127:								
Marblespring	0-0	---	20-30	4.5-5.5	0	0	0	0
	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3127:								
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
3130:								
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3131:								
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3131:								
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3132:								
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3133:								
Phoebe, dry	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3133:								
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3134:								
Phoebe, dry	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3135:								
Bong	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Phoebe, dry	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3135:								
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3140:								
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Garrison	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Opportunity	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Springdale, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3141:								
Springdale----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Marble----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Spens----------	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Garrison----------	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Opportunity----------	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Hardesty----------	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3142:								
Spens----------	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Marble----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Springdale----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3142:								
Bong, moist----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty----------	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3143:								
Spens----------	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Bong, moist----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Marble----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Springdale----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Wapal----------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
3144:								
Wapal----------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3144:								
Bonner	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-5	15-35	---	6.1-7.3	0	0	0	0
	5-9	10-25	---	6.1-7.3	0	0	0	0
	9-19	10-25	---	6.1-7.3	0	0	0	0
	19-27	0.0-5.0	---	6.1-7.3	0	0	0	0
	27-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
3145:								
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
Scoap	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-17	5.0-15	---	6.1-7.3	0	0	0	0
	17-30	5.0-12	---	6.1-7.3	0	0	0	0
	30-47	2.0-4.0	---	6.1-7.3	0	0	0	0
	47-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3146:								
Scoap	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-17	5.0-15	---	6.1-7.3	0	0	0	0
	17-30	5.0-12	---	6.1-7.3	0	0	0	0
	30-47	2.0-4.0	---	6.1-7.3	0	0	0	0
	47-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
Rubble land	0-60	---	---	---	---	---	---	---
3147:								
Spens, cool	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Springdale	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3147:								
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-7.3	0	0	0	0
	13-17	3.0-7.0	---	6.1-7.3	0	0	0	0
	17-21	2.0-4.0	---	6.1-7.3	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.1-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-7.3	0	0	0	0
3148:								
Spens, cool	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Wapal	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-6	6.0-13	---	6.1-7.3	0	0	0	0
	6-13	4.0-8.0	---	6.1-6.5	0	0	0	0
	13-17	3.0-7.0	---	6.1-6.5	0	0	0	0
	17-21	2.0-4.0	---	6.1-6.5	0	0	0	0
	21-30	0.0-2.0	---	5.6-6.5	0	0	0	0
	30-36	0.0-2.0	---	6.6-7.3	0	0	0	0
	36-62	0.0-2.0	---	6.1-6.5	0	0	0	0
3200:								
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3200:								
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
3201:								
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3202:								
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
3210:								
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3210:								
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Wolfeson	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
3211:								
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3211:								
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3212:								
Kaniksu, dry	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Seaboldt	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Stapaloop	0-8	5.0-15	---	6.1-7.3	0	0	0	0
	8-14	2.0-10	---	6.1-7.3	0	0	0	0
	14-22	3.0-8.0	---	6.1-7.3	0	0	0	0
	22-32	1.0-5.0	---	6.1-7.3	0	0	0	0
	32-52	1.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
3220:								
Stapaloop	0-8	5.0-15	---	6.1-7.3	0	0	0	0
	8-14	2.0-10	---	6.1-7.3	0	0	0	0
	14-22	3.0-8.0	---	6.1-7.3	0	0	0	0
	22-32	1.0-5.0	---	6.1-7.3	0	0	0	0
	32-52	1.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	1.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3220:								
Fan Lake----------	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Kaniksu, dry---------	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Scrabblers----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Wolfeson----------	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
3221:								
Stapaloop----------	0-8	5.0-15	---	6.1-7.3	0	0	0	0
	8-14	2.0-10	---	6.1-7.3	0	0	0	0
	14-22	3.0-8.0	---	6.1-7.3	0	0	0	0
	22-32	1.0-5.0	---	6.1-7.3	0	0	0	0
	32-52	1.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Kaniksu, dry---------	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Fan Lake----------	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3221:								
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
3222:								
Stapaloop	0-8	5.0-15	---	6.1-7.3	0	0	0	0
	8-14	2.0-10	---	6.1-7.3	0	0	0	0
	14-22	3.0-8.0	---	6.1-7.3	0	0	0	0
	22-32	1.0-5.0	---	6.1-7.3	0	0	0	0
	32-52	1.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Seaboldt	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Kaniksu, dry	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Fan Lake	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
3300:								
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3300:								
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Kaniksu, dry	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
3301:								
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Kaniksu, dry	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3301:								
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Kaniksu	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	4.0-12	---	5.6-6.5	0	0	0	0
	6-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-25	2.0-4.0	---	6.1-7.3	0	0	0	0
	25-43	2.0-4.0	---	6.1-7.3	0	0	0	0
	43-55	2.0-4.0	---	6.1-7.3	0	0	0	0
	55-70	0.0-4.0	---	6.1-7.3	0	0	0	0
3302:								
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Torboy	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
Eloika	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3302:								
Eloika, moist--------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3303:								
Scrabblers-----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Torboy---------------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	5.0-15	---	6.1-7.3	0	0	0	0
	7-11	4.0-10	---	5.6-7.3	0	0	0	0
	11-22	4.0-10	---	5.6-7.3	0	0	0	0
	22-33	0.0-4.0	---	5.6-7.3	0	0	0	0
	33-45	0.0-4.0	---	5.1-6.5	0	0	0	0
	45-60	0.0-4.0	---	5.1-6.5	0	0	0	0
Kaniksu, dry---------	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Eloika---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	10-20	---	6.1-7.3	0	0	0	0
	6-14	10-20	---	6.1-7.3	0	0	0	0
	14-21	10-20	---	6.1-7.3	0	0	0	0
	21-41	3.0-8.0	---	6.1-7.3	0	0	0	0
	41-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Colburn--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
3401:								
Elmira---------------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3401:								
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
3402:								
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Stapaloop	0-8	5.0-15	---	6.1-7.3	0	0	0	0
	8-14	2.0-10	---	6.1-7.3	0	0	0	0
	14-22	3.0-8.0	---	6.1-7.3	0	0	0	0
	22-32	1.0-5.0	---	6.1-7.3	0	0	0	0
	32-52	1.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3402:								
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
3403:								
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Hagen	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Scrabblers	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-8	8.0-12	---	6.1-7.3	0	0	0	0
	8-12	6.0-10	---	6.1-7.3	0	0	0	0
	12-23	0.0-4.0	---	6.1-7.3	0	0	0	0
	23-36	0.0-4.0	---	6.1-7.3	0	0	0	0
	36-60	0.0-4.0	---	6.1-7.3	0	0	0	0
Colburn	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	10-20	---	5.6-7.3	0	0	0	0
	5-12	5.0-15	---	6.1-7.3	0	0	0	0
	12-21	5.0-12	---	6.1-7.3	0	0	0	0
	21-32	5.0-12	---	6.1-7.3	0	0	0	0
	32-43	0.0-5.0	---	6.1-7.8	0	0	0	0
	43-55	0.0-5.0	---	6.1-7.8	0	0	0	0
	55-60	0.0-4.0	---	6.1-7.8	0	0	0	0
3404:								
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Seaboldt	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3404:								
Kaniksu, dry---------	0-7	4.0-12	---	5.6-6.5	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-23	3.0-7.0	---	6.1-7.3	0	0	0	0
	23-42	2.0-4.0	---	6.1-7.3	0	0	0	0
	42-60	2.0-4.0	---	6.1-7.3	0	0	0	0
Marble---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---
3500:								
Uhlig----------------	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Bong, moist----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Narcisse-------------	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Hardesty-------------	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
3501:								
Brincken, moist------	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Uhlig----------------	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3501:								
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Seaboldt	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Nez Perce	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-10	13-23	---	6.1-7.3	0	0	0	0
	10-19	10-20	---	6.1-7.3	0	0	0	0
	19-30	35-45	---	6.6-7.8	0	0	0	0
	30-42	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
	42-60	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
3502:								
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	6.5-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3503:								
Uhlig, dry----------	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Bong----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Cheney----------	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Narcisse----------	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Deno----------	0-4	7.0-17	---	6.1-7.3	0	0	0	0
	4-14	7.0-17	---	6.1-7.3	0	0	0	0
	14-28	7.0-15	---	7.4-8.4	0	0	0	0
	28-40	7.0-15	---	7.4-8.4	0	0	0	0
	40-48	3.0-11	---	7.4-8.4	0	0	0	0
	48-58	---	---	---	---	---	---	---
Seaboldt, dry--------	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
3504:								
Brincken----------	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Reardan----------	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3504:								
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Cheney	0-10	10-20	---	6.1-7.8	0	0	0	0
	10-14	10-20	---	6.1-7.8	0	0	0	0
	14-22	10-15	---	6.6-7.8	0	0	0	0
	22-28	10-15	---	6.6-7.8	0	0	0	0
	28-32	4.0-10	---	7.4-8.4	0	0	0	0
	32-60	0.0-4.0	---	7.4-8.4	0	0	0	0
Uhlig, dry	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Tucannon	0-5	10-20	---	6.1-7.3	0	0	0	0
	5-10	15-20	---	6.1-7.8	0	0	0	0
	10-21	15-20	---	7.4-8.4	0	0	0	0
	21-29	15-20	---	6.6-7.8	0	0	0	0
	29-39	---	---	---	---	---	---	---
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
3505:								
Seaboldt, warm	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Nez Perce	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-10	13-23	---	6.1-7.3	0	0	0	0
	10-19	10-20	---	6.1-7.3	0	0	0	0
	19-30	35-45	---	6.6-7.8	0	0	0	0
	30-42	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
	42-60	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3505:								
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Urban land	---	---	---	---	---	---	---	---
3600:								
Seaboldt	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Rockly	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
3601:								
Seaboldt	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Fourmound	0-4	7.0-17	---	6.1-6.5	0	0	0	0
	4-9	7.0-17	---	6.1-6.5	0	0	0	0
	9-15	7.0-17	---	6.1-6.5	0	0	0	0
	15-30	7.0-15	---	5.6-6.5	0	0	0	0
	30-43	7.0-15	---	5.6-6.5	0	0	0	0
	43-47	3.0-11	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Northstar	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Phoebe	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
4000:								
Hunters	0-6	12-16	---	5.6-6.5	0	0	0	0
	6-14	10-15	---	5.6-6.5	0	0	0	0
	14-26	10-15	---	6.1-7.3	0	0	0	0
	26-36	3.0-12	---	6.6-7.3	1-4	0	0	0
	36-46	3.0-10	---	7.9-8.4	1-4	0	0	0
	46-55	1.0-6.0	---	7.9-8.4	1-5	0	0	0
	55-64	1.0-6.0	---	6.6-8.4	1-5	0	0	0
Cedonia	0-6	13-28	---	6.1-7.3	0	0	0	0
	6-12	13-29	---	6.1-7.3	0	0	0	0
	12-27	9.0-25	---	7.4-8.4	1-5	0	0	0
	27-33	9.0-25	---	7.4-8.4	1-5	0	0	0
	33-60	13-33	---	7.4-9.0	2-6	0	0.0-1.0	0
Peone	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
4000:								
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
4001:								
Cedonia	0-6	13-28	---	6.1-7.3	0	0	0	0
	6-12	13-29	---	6.1-7.3	0	0	0	0
	12-27	9.0-25	---	7.4-8.4	1-5	0	0	0
	27-33	9.0-25	---	7.4-8.4	1-5	0	0	0
	33-60	13-33	---	7.4-9.0	2-6	0	0.0-1.0	0
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Hunters	0-6	12-16	---	5.6-6.5	0	0	0	0
	6-14	10-15	---	5.6-6.5	0	0	0	0
	14-26	10-15	---	6.1-7.3	0	0	0	0
	26-36	3.0-12	---	6.6-7.3	1-4	0	0	0
	36-46	3.0-10	---	7.9-8.4	1-4	0	0	0
	46-55	1.0-6.0	---	7.9-8.4	1-5	0	0	0
	55-64	1.0-6.0	---	6.6-8.4	1-5	0	0	0
Peone	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0
4002:								
Cedonia	0-6	13-28	---	6.1-7.3	0	0	0	0
	6-12	13-29	---	6.1-7.3	0	0	0	0
	12-27	9.0-25	---	7.4-8.4	1-5	0	0	0
	27-33	9.0-25	---	7.4-8.4	1-5	0	0	0
	33-60	13-33	---	7.4-9.0	2-6	0	0.0-1.0	0
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
4002:								
Peone	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0
Hunters	0-6	12-16	---	5.6-6.5	0	0	0	0
	6-14	10-15	---	5.6-6.5	0	0	0	0
	14-26	10-15	---	6.1-7.3	0	0	0	0
	26-36	3.0-12	---	6.6-7.3	1-4	0	0	0
	36-46	3.0-10	---	7.9-8.4	1-4	0	0	0
	46-55	1.0-6.0	---	7.9-8.4	1-5	0	0	0
	55-64	1.0-6.0	---	6.6-8.4	1-5	0	0	0
4031:								
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Cedonia	0-6	13-28	---	6.1-7.3	0	0	0	0
	6-12	13-29	---	6.1-7.3	0	0	0	0
	12-27	9.0-25	---	7.4-8.4	1-5	0	0	0
	27-33	9.0-25	---	7.4-8.4	1-5	0	0	0
	33-60	13-33	---	7.4-9.0	2-6	0	0.0-1.0	0
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
4031:								
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
4032:								
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Marble	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
4033:								
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Speigle	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
4040:								
Wolfeson	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
Fan Lake	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Stapaloop	0-8	5.0-15	---	6.1-7.3	0	0	0	0
	8-14	2.0-10	---	6.1-7.3	0	0	0	0
	14-22	3.0-8.0	---	6.1-7.3	0	0	0	0
	22-32	1.0-5.0	---	6.1-7.3	0	0	0	0
	32-52	1.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	1.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
4040:								
Bridgeson	0-12	20-35	---	6.6-7.8	0	0	0	0
	12-20	10-30	---	6.6-7.8	0	0	0	0
	20-31	10-30	---	6.6-7.8	0	0	0	0
	31-40	10-30	---	6.6-7.8	0	0	0	0
	40-60	10-30	---	6.6-7.8	0	0	0	0
4041:								
Wolfeson	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
Fan Lake	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Bridgeson	0-12	20-35	---	6.6-7.8	0	0	0	0
	12-20	10-30	---	6.6-7.8	0	0	0	0
	20-31	10-30	---	6.6-7.8	0	0	0	0
	31-40	10-30	---	6.6-7.8	0	0	0	0
	40-60	10-30	---	6.6-7.8	0	0	0	0
Stapaloop	0-8	5.0-15	---	6.1-7.3	0	0	0	0
	8-14	2.0-10	---	6.1-7.3	0	0	0	0
	14-22	3.0-8.0	---	6.1-7.3	0	0	0	0
	22-32	1.0-5.0	---	6.1-7.3	0	0	0	0
	32-52	1.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	1.0-4.0	---	6.1-7.3	0	0	0	0
4050:								
Fan Lake	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Green Bluff	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
4050:								
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Wolfeson	0-9	5.0-15	---	6.1-7.3	0	0	0	0
	9-21	5.0-15	---	6.1-7.3	0	0	0	0
	21-37	5.0-15	---	6.1-7.3	0	0	0	0
	37-48	5.0-20	---	6.1-7.3	0	0	0	0
	48-53	5.0-20	---	6.1-7.3	0	0	0	0
	53-60	5.0-20	---	6.1-7.3	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
4051:								
Fan Lake	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Klickson	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
4051:								
Blinn, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-12	5.0-20	---	6.1-7.3	0	0	0	0
	12-24	10-15	---	6.1-7.3	0	0	0	0
	24-39	5.0-15	---	6.1-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Kronquist----------	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Quinnamose----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
5001:								
Brickel-------------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-3	15-30	---	5.6-6.5	0	0	0	0
	3-9	15-30	---	5.6-6.5	0	0	0	0
	9-19	10-25	---	5.6-6.5	0	0	0	0
	19-27	10-20	---	5.6-6.5	0	0	0	0
	27-31	10-20	---	5.6-6.5	0	0	0	0
	31-41	---	---	---	---	---	---	---
Vaywood-------------	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-8	15-35	---	6.1-7.3	0	0	0	0
	8-20	10-25	---	6.1-7.3	0	0	0	0
	20-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-12	3.0-5.0	5.1-6.0	0	0	0	0
	36-44	7.0-10	---	5.1-6.0	0	0	0	0
	44-50	3.0-7.0	---	5.1-6.0	0	0	0	0
	50-60	1.0-5.0	---	5.1-6.0	0	0	0	0
Bouldercreek---------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Brevco--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5001:								
Rock outcrop	0-60	---	---	---	---	---	---	---
5023:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
5024:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5024:								
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
5025:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5025:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
5026:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5026:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5027:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5037:								
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Spens	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
5040:								
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5040:								
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Bong, moist	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5041:								
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5041:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5053:								
Jacot, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Hysing, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-28	10-25	---	5.6-7.3	0	0	0	0
	28-31	2.0-5.0	---	5.1-7.3	0	0	0	0
	31-47	2.0-5.0	---	5.1-7.3	0	0	0	0
	47-57	---	---	---	---	---	---	---
Jacot	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5053:								
Boulderjud, dry------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Boulderjud-----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
5060:								
Bouldercreek, moist--	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-4	15-30	---	5.6-7.3	0	0	0	0
	4-13	15-25	---	5.6-7.3	0	0	0	0
	13-21	15-25	---	5.6-7.3	0	0	0	0
	21-38	6.0-12	---	5.1-6.5	0	0	0	0
	38-60	5.0-10	---	5.1-6.5	0	0	0	0
Boulderjud-----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Lakestarr------------	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
Nakarna--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-15	10-20	---	6.1-7.3	0	0	0	0
	15-19	8.0-12	---	6.1-7.3	0	0	0	0
	19-33	1.0-5.0	---	5.6-7.3	0	0	0	0
	33-44	1.0-5.0	---	5.6-7.3	0	0	0	0
	44-54	1.0-3.0	---	5.6-7.3	0	0	0	0
	54-64	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5060:								
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
5061:								
Nakarna	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-15	10-20	---	6.1-7.3	0	0	0	0
	15-19	8.0-12	---	6.1-7.3	0	0	0	0
	19-33	1.0-5.0	---	5.6-7.3	0	0	0	0
	33-44	1.0-5.0	---	5.6-7.3	0	0	0	0
	44-54	1.0-3.0	---	5.6-7.3	0	0	0	0
	54-64	---	---	---	---	---	---	---
Nakarna, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-23	10-20	---	6.1-7.3	0	0	0	0
	23-29	8.0-12	---	6.1-7.3	0	0	0	0
	29-33	2.0-6.0	---	5.6-7.3	0	0	0	0
	33-42	3.0-7.0	---	5.6-7.3	0	0	0	0
	42-49	1.0-3.0	---	5.6-7.3	0	0	0	0
	49-59	---	---	---	---	---	---	---
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Bouldercreek	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Lakestarr	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5061:								
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
5062:								
Nakarna	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-15	10-20	---	6.1-7.3	0	0	0	0
	15-19	8.0-12	---	6.1-7.3	0	0	0	0
	19-33	1.0-5.0	---	5.6-7.3	0	0	0	0
	33-44	1.0-5.0	---	5.6-7.3	0	0	0	0
	44-54	1.0-3.0	---	5.6-7.3	0	0	0	0
	54-64	---	---	---	---	---	---	---
Bouldercreek	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Nakarna, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-23	10-20	---	6.1-7.3	0	0	0	0
	23-29	8.0-12	---	6.1-7.3	0	0	0	0
	29-33	2.0-6.0	---	5.6-7.3	0	0	0	0
	33-42	3.0-7.0	---	5.6-7.3	0	0	0	0
	42-49	1.0-3.0	---	5.6-7.3	0	0	0	0
	49-59	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5067:								
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Jacot, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
5068:								
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5068:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Jacot, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
5070:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5070:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Skalan	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5071:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5071:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5072:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5072:								
Hardesty	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
5073:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
5074:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5074:								
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
5080:								
Vaywood	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-8	15-35	---	6.1-7.3	0	0	0	0
	8-20	10-25	---	6.1-7.3	0	0	0	0
	20-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-12	3.0-5.0	5.1-6.0	0	0	0	0
	36-44	7.0-10	---	5.1-6.0	0	0	0	0
	44-50	3.0-7.0	---	5.1-6.0	0	0	0	0
	50-60	1.0-5.0	---	5.1-6.0	0	0	0	0
Vay	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	15-35	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-22	10-25	---	6.1-7.3	0	0	0	0
	22-30	10-12	---	5.1-6.0	0	0	0	0
	30-42	7.0-10	---	5.1-6.0	0	0	0	0
	42-52	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Brickel	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-3	15-30	---	5.6-6.5	0	0	0	0
	3-9	15-30	---	5.6-6.5	0	0	0	0
	9-19	10-25	---	5.6-6.5	0	0	0	0
	19-27	10-20	---	5.6-6.5	0	0	0	0
	27-31	10-20	---	5.6-6.5	0	0	0	0
	31-41	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5080:								
Rock outcrop---	0-60	---	---	---	---	---	---	---
5081:								
Vaywood---	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-8	15-35	---	6.1-7.3	0	0	0	0
	8-20	10-25	---	6.1-7.3	0	0	0	0
	20-24	10-25	---	6.1-7.3	0	0	0	0
	24-36	10-12	3.0-5.0	5.1-6.0	0	0	0	0
	36-44	7.0-10	---	5.1-6.0	0	0	0	0
	44-50	3.0-7.0	---	5.1-6.0	0	0	0	0
	50-60	1.0-5.0	---	5.1-6.0	0	0	0	0
Bouldercreek---	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Vay---	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-6	15-35	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-22	10-25	---	6.1-7.3	0	0	0	0
	22-30	10-12	---	5.1-6.0	0	0	0	0
	30-42	7.0-10	---	5.1-6.0	0	0	0	0
	42-52	---	---	---	---	---	---	---
Brickel---	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-3	15-30	---	5.6-6.5	0	0	0	0
	3-9	15-30	---	5.6-6.5	0	0	0	0
	9-19	10-25	---	5.6-6.5	0	0	0	0
	19-27	10-20	---	5.6-6.5	0	0	0	0
	27-31	10-20	---	5.6-6.5	0	0	0	0
	31-41	---	---	---	---	---	---	---
Rock outcrop---	0-60	---	---	---	---	---	---	---
5090:								
Brevco---	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Ardtoo---	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5090:								
Blackprince----------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
5091:								
Brevco---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Ardtoo---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Blackprince----------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5091:								
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5092:								
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Ardtoo	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
5093:								
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5093:								
Ardtoo	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Boulderjud, dry	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Boulderjud	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5094:								
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Ardtoo	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5094:								
Boulderjud, dry------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Boulderjud----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Brevco--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
5102:								
Boulderjud----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Boulderjud, dry------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Jacot---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5102:								
Ardtoo	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Bouldercreek	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
5103:								
Boulderjud	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Boulderjud, dry	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Jacot	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Ardtoo	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5103:								
Bouldercreek---	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Rock outcrop---	0-60	---	---	---	---	---	---	---
5104:								
Boulderjud, dry---	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Ardtoo---	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Boulderjud---	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Jacot, dry---	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Blackprince---	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Rock outcrop---	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5105:								
Boulderjud, dry------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Ardtoo--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Boulderjud-----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Jacot, dry-----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Blackprince----------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Bouldercreek---------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5110:								
Bouldercreek---	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Boulderjud---	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Kellerbutte---	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
Rock outcrop---	0-60	---	---	---	---	---	---	---
5111:								
Bouldercreek---	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Nakarna---	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-15	10-20	---	6.1-7.3	0	0	0	0
	15-19	8.0-12	---	6.1-7.3	0	0	0	0
	19-33	1.0-5.0	---	5.6-7.3	0	0	0	0
	33-44	1.0-5.0	---	5.6-7.3	0	0	0	0
	44-54	1.0-3.0	---	5.6-7.3	0	0	0	0
	54-64	---	---	---	---	---	---	---
Boulderjud---	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5111:								
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
5112:								
Bouldercreek, dry----	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-7	15-30	---	5.6-7.3	0	0	0	0
	7-15	15-25	---	5.6-7.3	0	0	0	0
	15-23	15-25	---	5.6-7.3	0	0	0	0
	23-27	6.0-12	---	5.1-6.5	0	0	0	0
	27-54	5.0-10	---	5.1-6.5	0	0	0	0
	54-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Bouldercreek---------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Brevco---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Jacot----------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5112:								
Rock outcrop---------	0-60	---	---	---	---	---	---	---
5113:								
Bouldercreek, dry----	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-7	15-30	---	5.6-7.3	0	0	0	0
	7-15	15-25	---	5.6-7.3	0	0	0	0
	15-23	15-25	---	5.6-7.3	0	0	0	0
	23-27	6.0-12	---	5.1-6.5	0	0	0	0
	27-54	5.0-10	---	5.1-6.5	0	0	0	0
	54-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
Bouldercreek---------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Brevco---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Jacot----------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5114:								
Bouldercreek---------	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---
Bouldercreek, dry----	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-7	15-30	---	5.6-7.3	0	0	0	0
	7-15	15-25	---	5.6-7.3	0	0	0	0
	15-23	15-25	---	5.6-7.3	0	0	0	0
	23-27	6.0-12	---	5.1-6.5	0	0	0	0
	27-54	5.0-10	---	5.1-6.5	0	0	0	0
	54-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Brevco---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Jacot----------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
5120:								
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5120:								
Boulderjud	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Jacot	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Nakarna	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-15	10-20	---	6.1-7.3	0	0	0	0
	15-19	8.0-12	---	6.1-7.3	0	0	0	0
	19-33	1.0-5.0	---	5.6-7.3	0	0	0	0
	33-44	1.0-5.0	---	5.6-7.3	0	0	0	0
	44-54	1.0-3.0	---	5.6-7.3	0	0	0	0
	54-64	---	---	---	---	---	---	---
Brevco	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5121:								
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
Brevco---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---
Ardtoo---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Boulderjud-----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
5122:								
Kellerbutte----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
Brevco---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-8	5.0-12	---	6.1-7.3	0	0	0	0
	8-14	5.0-12	---	5.6-6.5	0	0	0	0
	14-21	1.0-4.0	---	5.6-7.3	0	0	0	0
	21-37	1.0-4.0	---	5.6-7.3	0	0	0	0
	37-47	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5122:								
Ardtoo	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---
Boulderjud	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5123:								
Kellerbutte	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	15-35	---	6.1-7.3	0	0	0	0
	5-11	10-25	---	6.1-7.3	0	0	0	0
	11-17	10-25	---	6.1-7.3	0	0	0	0
	17-23	1.0-4.0	---	5.6-6.5	0	0	0	0
	23-45	1.0-4.0	---	5.6-6.5	0	0	0	0
	45-63	1.0-4.0	---	5.6-6.5	0	0	0	0
	63-73	---	---	---	---	---	---	---
Boulderjud, dry	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Blackprince	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	5.0-15	---	6.1-7.3	0	0	0	0
	5-19	5.0-12	---	5.6-6.5	0	0	0	0
	19-26	4.0-10	---	5.6-6.5	0	0	0	0
	26-36	0.0-5.0	---	5.6-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
Ardtoo	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-10	---	6.1-7.3	0	0	0	0
	4-7	4.0-8.0	---	6.1-7.3	0	0	0	0
	7-15	4.0-8.0	---	6.1-7.3	0	0	0	0
	15-21	1.0-4.0	---	5.6-6.5	0	0	0	0
	21-37	1.0-4.0	---	5.1-6.5	0	0	0	0
	37-51	1.0-4.0	---	5.1-6.5	0	0	0	0
	51-61	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5123:								
Boulderjud----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Jacot----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
5130:								
Brodeer----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	15-35	---	6.1-7.3	0	0	0	0
	4-8	10-25	---	5.6-7.3	0	0	0	0
	8-18	10-25	---	5.6-7.3	0	0	0	0
	18-26	10-25	---	5.6-7.3	0	0	0	0
	26-32	10-20	---	5.1-7.3	0	0	0	0
	32-47	10-20	---	5.1-7.3	0	0	0	0
	47-61	5.0-15	---	5.1-6.5	0	0	0	0
Jacot----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Jacot, dry----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Kruse----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5130:								
Lakestarr	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
5140:								
Jacot, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Hysing, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-28	10-25	---	5.6-7.3	0	0	0	0
	28-31	2.0-5.0	---	5.1-7.3	0	0	0	0
	31-47	2.0-5.0	---	5.1-7.3	0	0	0	0
	47-57	---	---	---	---	---	---	---
Brodeer	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	15-35	---	6.1-7.3	0	0	0	0
	4-8	10-25	---	5.6-7.3	0	0	0	0
	8-18	10-25	---	5.6-7.3	0	0	0	0
	18-26	10-25	---	5.6-7.3	0	0	0	0
	26-32	10-20	---	5.1-7.3	0	0	0	0
	32-47	10-20	---	5.1-7.3	0	0	0	0
	47-61	5.0-15	---	5.1-6.5	0	0	0	0
Jacot	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5141:								
Jacot	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Hysing	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-28	10-25	---	5.6-7.3	0	0	0	0
	28-31	2.0-5.0	---	5.1-7.3	0	0	0	0
	31-47	2.0-5.0	---	5.1-7.3	0	0	0	0
	47-57	---	---	---	---	---	---	---
Boulderjud	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Jacot, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Brodeer	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	15-35	---	6.1-7.3	0	0	0	0
	4-8	10-25	---	5.6-7.3	0	0	0	0
	8-18	10-25	---	5.6-7.3	0	0	0	0
	18-26	10-25	---	5.6-7.3	0	0	0	0
	26-32	10-20	---	5.1-7.3	0	0	0	0
	32-47	10-20	---	5.1-7.3	0	0	0	0
	47-61	5.0-15	---	5.1-6.5	0	0	0	0
5142:								
Jacot	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5142:								
Hysing	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-28	10-25	---	5.6-7.3	0	0	0	0
	28-31	2.0-5.0	---	5.1-7.3	0	0	0	0
	31-47	2.0-5.0	---	5.1-7.3	0	0	0	0
	47-57	---	---	---	---	---	---	---
Boulderjud	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Jacot, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Hysing, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-28	10-25	---	5.6-7.3	0	0	0	0
	28-31	2.0-5.0	---	5.1-7.3	0	0	0	0
	31-47	2.0-5.0	---	5.1-7.3	0	0	0	0
	47-57	---	---	---	---	---	---	---
5143:								
Jacot, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Hysing, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-28	10-25	---	5.6-7.3	0	0	0	0
	28-31	2.0-5.0	---	5.1-7.3	0	0	0	0
	31-47	2.0-5.0	---	5.1-7.3	0	0	0	0
	47-57	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5143:								
Boulderjud----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
Jacot---------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Boulderjud, dry------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
5144:								
Jacot, dry----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
Hysing, dry----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-18	10-25	---	6.1-7.3	0	0	0	0
	18-28	10-25	---	5.6-7.3	0	0	0	0
	28-31	2.0-5.0	---	5.1-7.3	0	0	0	0
	31-47	2.0-5.0	---	5.1-7.3	0	0	0	0
	47-57	---	---	---	---	---	---	---
Boulderjud----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5144:								
Boulderjud, dry------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-7	15-30	---	6.1-7.3	0	0	0	0
	7-17	15-25	---	6.1-7.3	0	0	0	0
	17-29	9.0-12	---	5.1-7.3	0	0	0	0
	29-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-44	1.0-5.0	---	5.1-7.3	0	0	0	0
	44-54	---	---	---	---	---	---	---
Jacot----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	5.6-7.3	0	0	0	0
	10-18	10-25	---	5.6-7.3	0	0	0	0
	18-24	3.0-8.0	---	5.6-6.5	0	0	0	0
	24-39	3.0-8.0	---	5.6-6.5	0	0	0	0
	39-50	1.0-3.0	---	5.1-6.5	0	0	0	0
	50-59	1.0-3.0	---	5.1-6.5	0	0	0	0
	59-62	1.0-3.0	---	5.1-6.5	0	0	0	0
5211:								
Kruse----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Keeler, dry----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0
Micapeak----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Kramerhill----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5212:								
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Keeler	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
5213:								
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Keeler, dry	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5213:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Quinnamose	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	10-20	---	5.6-6.5	0	0	0	0
	9-12	8.0-12	---	5.6-7.3	0	0	0	0
	12-31	8.0-15	---	5.6-7.3	0	0	0	0
	31-51	8.0-12	---	5.6-7.3	0	0	0	0
	51-58	3.0-8.0	---	6.1-7.3	0	0	0	0
	58-68	---	---	---	---	---	---	---
Boulderjud	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	15-30	---	6.1-7.3	0	0	0	0
	6-16	15-25	---	6.1-7.3	0	0	0	0
	16-26	9.0-12	---	5.1-7.3	0	0	0	0
	26-36	3.0-6.0	---	5.1-7.3	0	0	0	0
	36-56	1.0-5.0	---	5.1-7.3	0	0	0	0
	56-66	---	---	---	---	---	---	---
5310:								
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5310:								
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
5313:								
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Skalan	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Clayton	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-29	2.0-5.0	---	5.6-7.3	0	0	0	0
	29-42	2.0-5.0	---	5.6-7.3	0	0	0	0
	42-52	2.0-5.0	---	5.6-7.3	0	0	0	0
	52-62	2.0-4.0	---	6.1-7.3	0	0	0	0
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5313:								
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
5314:								
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Lenz	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Skalan	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5321:								
Kramerhill----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Uhlig---------------	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Skalan--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---
Glenrose------------	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Bong, moist----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Endoaquolls, deep----	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-55	---	---	---	---	---	---	---
5322:								
Kramerhill----------	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Skalan--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-9	10-12	---	6.1-6.5	0	0	0	0
	9-16	5.0-10	---	5.6-6.5	0	0	0	0
	16-23	8.0-15	---	5.6-6.5	0	0	0	0
	23-31	8.0-12	---	5.6-6.5	0	0	0	0
	31-36	---	---	---	---	---	---	---
	36-46	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5322:								
Spokane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Endoaquolls, deep	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-55	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
5412:								
Keeler	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-25	---	5.6-7.3	0	0	0	0
	5-9	12-22	---	5.6-7.3	0	0	0	0
	9-16	10-20	8.0-10	5.1-6.5	0	0	0	0
	16-25	8.0-18	7.0-10	5.1-6.5	0	0	0	0
	25-27	5.0-15	6.0-13	5.1-6.5	0	0	0	0
	27-39	15-25	---	5.6-7.3	0	0	0	0
	39-65	15-25	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5412:								
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Lakestarr	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
5413:								
Keeler	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Bouldercreek, dry	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-7	15-30	---	5.6-7.3	0	0	0	0
	7-15	15-25	---	5.6-7.3	0	0	0	0
	15-23	15-25	---	5.6-7.3	0	0	0	0
	23-27	6.0-12	---	5.1-6.5	0	0	0	0
	27-54	5.0-10	---	5.1-6.5	0	0	0	0
	54-63	2.0-7.0	---	5.1-6.5	0	0	0	0
Lakestarr	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5413:								
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
5414:								
Keeler	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	5.5-6.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Lakestarr	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
Micapeak	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	6.0-10	---	6.1-7.3	0	0	0	0
	7-13	4.0-9.0	---	5.6-6.5	0	0	0	0
	13-22	4.0-8.0	---	5.6-6.5	0	0	0	0
	22-33	2.0-6.0	---	5.6-6.5	0	0	0	0
	33-39	2.0-5.0	---	5.6-6.5	0	0	0	0
	39-49	---	---	---	---	---	---	---
Bouldercreek	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5512:								
Santa	0-8	9.1-16	---	5.1-6.5	0	0	0	0
	8-19	10-15	---	5.1-6.5	0	0	0	0
	19-29	8.7-13	6.8-13	5.1-6.0	0	0	0	0
	29-38	15-26	---	5.1-6.0	0	0	0	0
	38-59	15-26	---	5.1-6.5	0	0	0	0
Cavendish	0-8	7.3-13	---	5.4-6.5	0	0	0	0
	8-30	15-23	---	5.2-6.5	0	0	0	0
	30-43	14-22	---	5.1-6.5	0	0	0	0
	43-59	---	---	---	---	---	---	---
Crumarine	0-7	7.6-21	---	5.1-6.5	0	0	0	0
	7-24	7.2-16	---	5.5-6.5	0	0	0	0
	24-47	5.7-16	---	5.5-6.5	0	0	0	0
	47-59	3.7-14	---	5.0-6.5	0	0	0	0
Reggear	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-4	4.4-8.9	---	5.1-6.5	0	0	0	0
	4-8	4.4-8.8	---	5.1-6.5	0	0	0	0
	8-18	6.4-11	---	5.1-6.0	0	0	0	0
	18-31	8.5-14	---	5.1-6.5	0	0	0	0
	31-59	9.9-20	---	5.1-6.0	0	0	0	0
Santa, dry	0-8	9.1-16	---	5.1-6.5	0	0	0	0
	8-19	10-15	---	5.1-6.5	0	0	0	0
	19-29	8.7-13	6.8-13	5.1-6.0	0	0	0	0
	29-38	15-26	---	5.1-6.0	0	0	0	0
	38-59	15-26	---	5.1-6.5	0	0	0	0
5513:								
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	9.1-13	---	5.6-7.3	0	0	0	0
	5-9	8.9-13	---	5.6-7.3	0	0	0	0
	9-16	10-20	8.0-10	5.1-6.5	0	0	0	0
	16-25	8.0-18	7.0-10	5.1-6.5	0	0	0	0
	25-27	5.0-15	5.0-13	5.1-6.5	0	0	0	0
	27-39	17-24	---	5.6-7.3	0	0	0	0
	39-65	21-27	---	6.1-7.3	0	0	0	0
Kruse	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	6.2-18	---	6.1-7.3	0	0	0	0
	10-15	5.6-14	---	6.1-7.3	0	0	0	0
	15-23	9.9-18	---	5.6-6.5	0	0	0	0
	23-32	5.5-16	---	5.6-6.5	0	0	0	0
	32-46	5.5-16	---	5.6-6.5	0	0	0	0
	46-52	3.7-14	---	5.6-6.5	0	0	0	0
	52-61	2.3-7.7	---	5.6-6.5	0	0	0	0
Taney	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	8.4-17	5.4-11	5.1-6.0	0	0	0	0
	31-53	18-26	12-17	4.5-5.5	0	0	0	0
	53-59	18-29	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5602:								
Lakestarr	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-25	---	5.6-7.3	0	0	0	0
	5-9	12-22	---	5.6-7.3	0	0	0	0
	9-16	10-20	8.0-10	5.1-6.5	0	0	0	0
	16-25	8.0-18	7.0-10	5.1-6.5	0	0	0	0
	25-27	5.0-15	6.0-13	5.1-6.5	0	0	0	0
	27-39	15-25	---	5.6-7.3	0	0	0	0
	39-65	15-25	---	6.1-7.3	0	0	0	0
Keeler	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Lakestarr, dry	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
Fluvaquents, frigid	0-1	0.0-15	---	6.1-7.3	0	0	0	0
	1-4	0.0-15	---	6.1-7.3	0	0	0	0
	4-12	0.0-15	---	5.6-7.3	0	0	0	0
	12-21	0.0-15	---	5.6-7.3	0	0	0	0
	21-31	0.0-15	---	5.6-7.3	0	0	0	0
	31-40	0.0-15	---	5.6-7.3	0	0	0	0
	40-60	0.0-15	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5602:								
Lovell	0-2	23-33	---	5.6-6.5	0	0	0	0
	2-8	18-28	---	5.6-6.5	0	0	0	0
	8-19	13-23	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-30	15-25	---	6.1-7.3	0	0	0	0
	30-42	20-30	---	6.6-7.8	0	0	0	0
	42-52	20-30	---	6.6-7.8	0	0	0	0
	52-61	20-30	---	6.6-7.8	0	0	0	0
5603:								
Lakestarr	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-25	---	5.6-7.3	0	0	0	0
	5-9	12-22	---	5.6-7.3	0	0	0	0
	9-16	10-20	8.0-10	5.1-6.5	0	0	0	0
	16-25	8.0-18	7.0-10	5.1-6.5	0	0	0	0
	25-27	5.0-15	6.0-13	5.1-6.5	0	0	0	0
	27-39	15-25	---	5.6-7.3	0	0	0	0
	39-65	15-25	---	6.1-7.3	0	0	0	0
Keeler	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	10-20	---	5.1-6.5	0	0	0	0
	4-9	10-20	---	5.1-6.5	0	0	0	0
	9-16	7.0-13	---	5.1-6.5	0	0	0	0
	16-30	8.0-15	4.0-6.0	5.1-6.5	0	0	0	0
	30-50	8.0-15	---	5.1-6.5	0	0	0	0
	50-60	3.0-10	---	5.1-6.5	0	0	0	0
Kruse	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-10	10-15	---	6.1-7.3	0	0	0	0
	10-15	10-15	---	6.1-7.3	0	0	0	0
	15-23	10-20	---	5.6-6.5	0	0	0	0
	23-32	10-20	---	5.6-6.5	0	0	0	0
	32-46	10-20	---	5.6-6.5	0	0	0	0
	46-52	5.0-10	---	5.6-6.5	0	0	0	0
	52-61	3.0-8.0	---	5.6-6.5	0	0	0	0
Bouldercreek	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-9	15-30	---	5.6-7.3	0	0	0	0
	9-19	15-25	---	5.6-7.3	0	0	0	0
	19-25	15-25	---	5.6-7.3	0	0	0	0
	25-33	6.0-12	---	5.1-6.5	0	0	0	0
	33-50	5.0-10	---	5.1-6.5	0	0	0	0
	50-63	2.0-7.0	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
5603:								
Lakestarr, dry-------	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-10	15-30	---	6.1-6.5	0	0	0	0
	10-15	10-20	---	5.6-7.3	0	0	0	0
	15-24	8.0-18	---	5.6-6.0	0	0	0	0
	24-39	10-20	---	4.5-6.5	0	0	0	0
	39-47	10-20	---	5.1-6.5	0	0	0	0
	47-55	10-20	5.0-10	4.5-6.0	0	0	0	0
	55-65	8.0-15	---	4.5-6.0	0	0	0	0
Taney----------	0-1	---	27-64	4.5-5.5	0	0	0	0
	1-2	---	17-46	4.5-5.5	0	0	0	0
	2-4	20-25	---	6.1-7.3	0	0	0	0
	4-15	15-25	---	6.1-7.3	0	0	0	0
	15-22	15-25	---	6.1-7.3	0	0	0	0
	22-29	10-20	---	6.1-7.3	0	0	0	0
	29-31	---	5.0-15	4.5-6.0	0	0	0	0
	31-53	---	10-20	4.5-5.5	0	0	0	0
	53-60	15-25	---	5.6-7.3	0	0	0	0
6001:								
Athena----------	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Broadax----------	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Lance----------	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Mondovi----------	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0
Caldwell----------	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6001:								
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
6002:								
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.5-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Mondovi	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6003:								
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.5-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Mondovi	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0
6004:								
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6004:								
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.5-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
6010:								
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6010:								
Carlinton, dry-------	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	10-20	---	5.6-6.5	0	0	0	0
	14-20	10-20	---	5.6-6.5	0	0	0	0
	20-23	10-15	---	5.1-6.5	0	0	0	0
	23-30	15-25	---	5.6-6.5	0	0	0	0
	30-53	15-25	---	5.6-7.3	0	0	0	0
	53-60	15-25	---	5.6-7.3	0	0	0	0
Santa----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-25	---	5.6-7.3	0	0	0	0
	5-9	12-22	---	5.6-7.3	0	0	0	0
	9-16	10-20	8.0-10	5.1-6.5	0	0	0	0
	16-25	8.0-18	7.0-10	5.1-6.5	0	0	0	0
	25-27	5.0-15	6.0-13	5.1-6.5	0	0	0	0
	27-39	15-25	---	5.6-7.3	0	0	0	0
	39-65	15-25	---	6.1-7.3	0	0	0	0
Lovell----------	0-2	23-33	---	5.6-6.5	0	0	0	0
	2-8	18-28	---	5.6-6.5	0	0	0	0
	8-19	13-23	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-30	15-25	---	6.1-7.3	0	0	0	0
	30-42	20-30	---	6.6-7.8	0	0	0	0
	42-52	20-30	---	6.6-7.8	0	0	0	0
	52-61	20-30	---	6.6-7.8	0	0	0	0
Aquepts, frigid------	0-4	10-15	---	6.1-7.3	0	0	0	0
	4-12	10-15	---	6.1-7.3	0	0	0	0
	12-17	5.0-15	---	5.6-7.3	0	0	0	0
	17-27	5.0-10	---	5.6-7.3	0	0	0	0
	27-40	0.0-4.0	---	5.6-7.3	0	0	0	0
	40-50	0.0-4.0	---	5.6-7.3	0	0	0	0
	50-60	0.0-4.0	---	5.6-7.3	0	0	0	0
6011:								
Freeman----------	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Carlinton, dry-------	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	10-20	---	5.6-6.5	0	0	0	0
	14-20	10-20	---	5.6-6.5	0	0	0	0
	20-23	10-15	---	5.1-6.5	0	0	0	0
	23-30	15-25	---	5.6-6.5	0	0	0	0
	30-53	15-25	---	5.6-7.3	0	0	0	0
	53-60	15-25	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6011:								
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Lovell	0-2	23-33	---	5.6-6.5	0	0	0	0
	2-8	18-28	---	5.6-6.5	0	0	0	0
	8-19	13-23	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-30	15-25	---	6.1-7.3	0	0	0	0
	30-42	20-30	---	6.6-7.8	0	0	0	0
	42-52	20-30	---	6.6-7.8	0	0	0	0
	52-61	20-30	---	6.6-7.8	0	0	0	0
Endoaquolls	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0
6012:								
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Carlinton, dry	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	10-20	---	5.6-6.5	0	0	0	0
	14-20	10-20	---	5.6-6.5	0	0	0	0
	20-23	10-15	---	5.1-6.5	0	0	0	0
	23-30	15-25	---	5.6-6.5	0	0	0	0
	30-53	15-25	---	5.6-7.3	0	0	0	0
	53-60	15-25	---	5.6-7.3	0	0	0	0
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6012:								
Taney	0-1	---	27-64	4.5-5.5	0	0	0	0
	1-2	---	17-46	4.5-5.5	0	0	0	0
	2-4	20-25	---	6.1-7.3	0	0	0	0
	4-15	15-25	---	6.1-7.3	0	0	0	0
	15-22	15-25	---	6.1-7.3	0	0	0	0
	22-29	10-20	---	6.1-7.3	0	0	0	0
	29-31	---	5.0-15	4.5-6.0	0	0	0	0
	31-53	---	10-20	4.5-5.5	0	0	0	0
	53-60	15-25	---	5.6-7.3	0	0	0	0
Lovell	0-2	23-33	---	5.6-6.5	0	0	0	0
	2-8	18-28	---	5.6-6.5	0	0	0	0
	8-19	13-23	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-30	15-25	---	6.1-7.3	0	0	0	0
	30-42	20-30	---	6.6-7.8	0	0	0	0
	42-52	20-30	---	6.6-7.8	0	0	0	0
	52-61	20-30	---	6.6-7.8	0	0	0	0
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-25	---	5.6-7.3	0	0	0	0
	5-9	12-22	---	5.6-7.3	0	0	0	0
	9-16	10-20	8.0-10	5.1-6.5	0	0	0	0
	16-25	8.0-18	7.0-10	5.1-6.5	0	0	0	0
	25-27	5.0-15	6.0-13	5.1-6.5	0	0	0	0
	27-39	15-25	---	5.6-7.3	0	0	0	0
	39-65	15-25	---	6.1-7.3	0	0	0	0
6021:								
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6021:								
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
6031:								
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
6040:								
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6040:								
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Southwick	0-6	15-25	---	5.6-6.5	0	0	0	0
	6-14	15-25	---	5.6-6.5	0	0	0	0
	14-22	10-20	---	5.6-6.5	0	0	0	0
	22-27	5.0-15	---	5.6-7.3	0	0	0	0
	27-32	5.0-10	---	6.1-7.3	0	0	0	0
	32-36	10-15	---	6.1-7.3	0	0	0	0
	36-48	10-15	---	6.1-7.3	0	0	0	0
	48-60	10-15	---	6.1-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
6041:								
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Southwick	0-6	15-25	---	5.6-6.5	0	0	0	0
	6-14	15-25	---	5.6-6.5	0	0	0	0
	14-22	10-20	---	5.6-6.5	0	0	0	0
	22-27	5.0-15	---	5.6-7.3	0	0	0	0
	27-32	5.0-10	---	6.1-7.3	0	0	0	0
	32-36	10-15	---	6.1-7.3	0	0	0	0
	36-48	10-15	---	6.1-7.3	0	0	0	0
	48-60	10-15	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6041:								
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Endoaquolls	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
6042:								
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Southwick	0-6	15-25	---	5.6-6.5	0	0	0	0
	6-14	15-25	---	5.6-6.5	0	0	0	0
	14-22	10-20	---	5.6-6.5	0	0	0	0
	22-27	5.0-15	---	5.6-7.3	0	0	0	0
	27-32	5.0-10	---	6.1-7.3	0	0	0	0
	32-36	10-15	---	6.1-7.3	0	0	0	0
	36-48	10-15	---	6.1-7.3	0	0	0	0
	48-60	10-15	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6042:								
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Gibbs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-22	---	6.1-7.3	0	0	0	0
	5-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-31	10-20	---	6.1-7.3	0	0	0	0
	31-35	10-18	---	6.1-7.3	0	0	0	0
	35-45	---	---	---	---	---	---	---
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
6043:								
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6043:								
Southwick	0-6	15-25	---	5.6-6.5	0	0	0	0
	6-14	15-25	---	5.6-6.5	0	0	0	0
	14-22	10-20	---	5.6-6.5	0	0	0	0
	22-27	5.0-15	---	5.6-7.3	0	0	0	0
	27-32	5.0-10	---	6.1-7.3	0	0	0	0
	32-36	10-15	---	6.1-7.3	0	0	0	0
	36-48	10-15	---	6.1-7.3	0	0	0	0
	48-60	10-15	---	6.1-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
6045:								
Southwick	0-6	15-25	---	5.6-6.5	0	0	0	0
	6-14	15-25	---	5.6-6.5	0	0	0	0
	14-22	10-20	---	5.6-6.5	0	0	0	0
	22-27	5.0-15	---	5.6-7.3	0	0	0	0
	27-32	5.0-10	---	6.1-7.3	0	0	0	0
	32-36	10-15	---	6.1-7.3	0	0	0	0
	36-48	10-15	---	6.1-7.3	0	0	0	0
	48-60	10-15	---	6.1-7.3	0	0	0	0
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6045:								
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Freeman	0-2	10-20	7.0-10	5.1-6.0	0	0	0	0
	2-9	10-20	7.0-10	5.1-6.0	0	0	0	0
	9-15	5.0-12	---	5.1-7.3	0	0	0	0
	15-21	5.0-12	---	5.1-7.3	0	0	0	0
	21-29	5.0-25	---	5.1-7.3	0	0	0	0
	29-39	20-30	---	5.1-7.3	0	0	0	0
	39-53	20-30	---	5.1-7.3	0	0	0	0
	53-62	20-30	---	5.1-7.3	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
6050:								
Tilma	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-14	10-25	---	5.6-7.3	0	0	0	0
	14-20	10-20	---	5.6-7.3	0	0	0	0
	20-23	8.0-12	---	5.6-7.3	0	0	0	0
	23-30	25-35	---	5.6-7.3	0	0	0	0
	30-34	25-35	---	5.6-7.3	0	0	0	0
	34-42	25-35	---	5.6-7.3	0	0	0	0
	42-60	15-25	---	6.1-7.3	0	0	0	0
Latah	0-10	18-28	---	6.1-7.8	0	0	0	0
	10-14	15-25	---	6.1-7.8	0	0	0	0
	14-19	12-25	---	6.6-7.8	0	0	0	0
	19-22	10-20	---	6.6-7.8	0	0	0	0
	22-31	25-35	---	6.6-8.4	0	0	0	0
	31-38	25-35	---	6.6-8.4	0	0	0	0
	38-60	25-35	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6050:								
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Cald	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	6.1-7.8	0	0	0	0
	40-48	15-30	---	6.1-7.8	0	0	0	0
	48-60	15-35	---	6.1-7.8	0	0	0	0
6061:								
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6061:								
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
6062:								
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6062:								
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
Cald	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	6.1-7.8	0	0	0	0
	40-48	15-30	---	6.1-7.8	0	0	0	0
	48-60	15-35	---	6.1-7.8	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
6064:								
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6064:								
Caldwell----------	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Cald----------	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	6.1-7.8	0	0	0	0
	40-48	15-30	---	6.1-7.8	0	0	0	0
	48-60	15-35	---	6.1-7.8	0	0	0	0
6067:								
Naff----------	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Garfield----------	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Thatuna----------	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0
Athena----------	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Caldwell----------	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6067:								
Cald	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	6.1-7.8	0	0	0	0
	40-48	15-30	---	6.1-7.8	0	0	0	0
	48-60	15-35	---	6.1-7.8	0	0	0	0
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0
6068:								
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Staley	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-12	15-20	---	6.1-7.3	0	0	0	0
	12-23	10-20	---	6.1-7.3	0	0	0	0
	23-37	10-20	---	6.6-8.4	2-5	0	0	0
	37-60	10-20	---	6.6-8.4	3-7	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6072:								
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.6-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
6073:								
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.6-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Mondovi	0-17	14-28	---	5.6-7.3	0	0	0	0
	17-26	14-28	---	5.6-7.3	0	0	0	0
	26-38	12-27	---	6.6-7.8	0	0	0	0
	38-48	10-27	---	6.6-7.8	0	0	0	0
	48-60	6.0-25	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6073:								
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
6074:								
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.6-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
6080:								
Nez Perce	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-10	13-23	---	6.1-7.3	0	0	0	0
	10-19	10-20	---	6.1-7.3	0	0	0	0
	19-30	35-45	---	6.6-7.8	0	0	0	0
	30-42	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
	42-60	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
Brincken, moist	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Lakespring	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6080:								
Uhlig	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
6093:								
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.6-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
6094:								
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6094:								
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.6-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
6096:								
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6096:								
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.5-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
6110:								
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6110:								
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.6-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
6111:								
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6111:								
Hanning	0-9	10-20	---	5.6-6.5	0	0	0	0
	9-17	10-20	---	5.6-6.5	0	0	0	0
	17-24	10-20	---	6.6-7.3	0	0	0	0
	24-35	15-25	---	6.6-7.3	0	0	0	0
	35-45	15-25	---	6.6-7.3	0	0	0	0
	45-63	15-25	---	6.6-7.3	0	0	0	0
6112:								
Broadax	0-7	15-25	---	5.6-7.8	0	0	0	0
	7-15	15-25	---	5.6-7.8	0	0	0	0
	15-28	20-30	---	6.6-9.0	0	0	0	0
	28-33	15-25	---	7.4-9.0	1-10	0	0.0-1.0	0
	33-60	10-20	---	7.4-9.0	1-10	0	0.0-1.0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Lance	0-9	15-25	---	7.9-8.4	1-8	0	0	0
	9-14	10-20	---	7.9-9.0	2-10	0	0	0
	14-22	10-20	---	7.9-9.0	2-10	0	0	0
	22-40	10-20	---	7.9-9.0	2-10	0	0	0
	40-60	8.0-15	---	7.9-9.0	2-8	0	0	0
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
6130:								
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6130:								
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
6131:								
Thatuna	0-6	18-20	---	5.6-7.3	0	0	0	0
	6-12	18-20	---	5.6-7.3	0	0	0	0
	12-19	18-25	---	5.6-7.3	0	0	0	0
	19-28	10-20	---	6.1-7.3	0	0	0	0
	28-35	8.0-12	---	6.1-7.3	0	0	0	0
	35-43	18-25	---	6.1-7.3	0	0	0	0
	43-52	18-25	---	6.1-7.3	0	0	0	0
	52-60	18-25	---	6.1-7.3	0	0	0	0
Naff	0-8	15-25	---	5.6-7.3	0	0	0	0
	8-17	15-25	---	6.1-7.3	0	0	0	0
	17-26	20-30	---	6.1-7.3	0	0	0	0
	26-61	20-30	---	6.1-7.8	0	0	0	0
	61-80	20-30	---	6.1-7.8	0	0	0	0
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6131:								
Garfield	0-5	15-25	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	25-35	---	6.6-8.4	0	0	0	0
	19-32	25-35	---	6.6-8.4	0	0	0	0
	32-45	25-35	---	6.6-8.4	0-2	0	0	0
	45-60	20-30	---	6.6-8.4	0-2	0	0	0
Caldwell	0-4	25-35	---	6.1-7.3	0	0	0	0
	4-10	23-33	---	6.1-7.3	0	0	0	0
	10-16	20-30	---	6.1-7.3	0	0	0	0
	16-21	18-28	---	6.1-7.3	0	0	0	0
	21-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-35	---	6.6-7.3	0	0	0	0
	52-60	18-35	---	6.6-7.3	0	0	0	0
Cald	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	6.1-7.8	0	0	0	0
	40-48	15-30	---	6.1-7.8	0	0	0	0
	48-60	15-35	---	6.1-7.8	0	0	0	0
6140:								
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Southwick	0-6	15-25	---	5.6-6.5	0	0	0	0
	6-14	15-25	---	5.6-6.5	0	0	0	0
	14-22	10-20	---	5.6-6.5	0	0	0	0
	22-27	5.0-15	---	5.6-6.5	0	0	0	0
	27-32	5.0-10	---	6.1-6.5	0	0	0	0
	32-36	10-15	---	6.1-7.3	0	0	0	0
	36-48	10-15	---	6.1-7.3	0	0	0	0
	48-60	10-15	---	6.1-7.3	0	0	0	0
Bobbitt	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6140:								
Gibbs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-5	15-22	---	6.1-7.3	0	0	0	0
	5-13	10-20	---	6.1-7.3	0	0	0	0
	13-20	10-20	---	6.1-7.3	0	0	0	0
	20-31	10-20	---	6.1-7.3	0	0	0	0
	31-35	10-18	---	6.1-7.3	0	0	0	0
	35-45	---	---	---	---	---	---	---
6141:								
Driscoll	0-3	15-22	---	5.6-6.5	0	0	0	0
	3-10	15-22	---	5.6-6.5	0	0	0	0
	10-26	11-18	---	5.6-7.3	0	0	0	0
	26-27	10-15	---	5.6-7.3	0	0	0	0
	27-37	25-33	---	5.6-7.3	0	0	0	0
	37-45	25-33	---	5.6-7.3	0	0	0	0
	45-50	23-33	---	6.6-7.8	0	0	0	0
	50-60	20-30	---	6.6-7.8	0	0	0	0
Larkin	0-4	18-22	---	5.1-6.5	0	0	0	0
	4-9	16-22	---	5.1-6.5	0	0	0	0
	9-14	14-18	---	5.1-6.5	0	0	0	0
	14-19	15-20	---	5.6-6.5	0	0	0	0
	19-34	15-25	---	5.6-7.3	0	0	0	0
	34-64	15-25	---	5.6-7.3	0	0	0	0
Southwick	0-6	15-25	---	5.6-6.5	0	0	0	0
	6-14	15-25	---	5.6-6.5	0	0	0	0
	14-22	10-20	---	5.6-6.5	0	0	0	0
	22-27	5.0-15	---	5.6-6.5	0	0	0	0
	27-32	5.0-10	---	6.1-6.5	0	0	0	0
	32-36	10-15	---	6.1-7.3	0	0	0	0
	36-48	10-15	---	6.1-7.3	0	0	0	0
	48-60	10-15	---	6.1-7.3	0	0	0	0
Cald	0-7	25-35	---	6.1-7.3	0	0	0	0
	7-13	25-35	---	5.6-7.3	0	0	0	0
	13-17	20-30	---	5.6-7.3	0	0	0	0
	17-25	15-25	---	6.1-7.3	0	0	0	0
	25-40	15-30	---	6.1-7.8	0	0	0	0
	40-48	15-30	---	6.1-7.8	0	0	0	0
	48-60	15-35	---	6.1-7.8	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Latah	0-10	18-28	---	6.1-7.8	0	0	0	0
	10-14	15-25	---	6.1-7.8	0	0	0	0
	14-19	12-25	---	6.6-7.8	0	0	0	0
	19-22	10-20	---	6.6-7.8	0	0	0	0
	22-31	25-35	---	6.6-8.4	0	0	0	0
	31-38	25-35	---	6.6-8.4	0	0	0	0
	38-60	25-35	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6200:								
Morical	0-6	15-30	---	5.6-7.3	0	0	0	0
	6-12	15-25	---	5.6-7.3	0	0	0	0
	12-18	15-30	---	5.6-7.3	0	0	0	0
	18-27	15-30	---	5.6-7.3	0	0	0	0
	27-37	---	---	---	---	---	---	---
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
Reardan	0-10	15-25	---	5.6-7.3	0	0	0	0
	10-15	15-25	---	6.1-7.3	0	0	0	0
	15-18	10-20	---	6.1-7.3	0	0	0	0
	18-31	30-40	---	6.6-7.8	0	0	0	0
	31-37	30-40	---	6.6-8.4	1-5	0	0	0
	37-60	10-20	---	6.6-8.4	1-5	0	0	0
Swakane	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
6201:								
Morical	0-6	15-30	---	5.6-7.3	0	0	0	0
	6-12	15-25	---	5.6-7.3	0	0	0	0
	12-18	15-30	---	5.6-7.3	0	0	0	0
	18-27	15-30	---	5.6-7.3	0	0	0	0
	27-37	---	---	---	---	---	---	---
Athena	0-4	15-25	---	5.1-7.3	0	0	0	0
	4-8	15-25	---	5.6-7.3	0	0	0	0
	8-13	15-25	---	6.1-7.3	0	0	0	0
	13-26	10-20	---	6.1-7.3	0	0	0	0
	26-42	10-20	---	6.6-8.4	0	0	0	0
	42-54	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0
	54-60	10-20	---	6.6-8.4	0-5	0	0.0-1.0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
6201:								
Dearyton	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.1-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.6-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0
Glenrose	0-8	12-20	---	5.6-6.5	0	0	0	0
	8-14	12-20	---	5.6-7.3	0	0	0	0
	14-19	10-16	---	6.1-7.3	0	0	0	0
	19-24	10-20	---	6.1-7.3	0	0	0	0
	24-32	9.0-18	---	6.1-7.3	0	0	0	0
	32-41	9.0-20	---	6.1-7.3	0	0	0	0
	41-60	12-18	---	6.1-7.3	0	0	0	0
Kramerhill	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-5	10-20	---	6.1-7.3	0	0	0	0
	5-9	10-15	---	6.1-7.3	0	0	0	0
	9-19	5.0-10	---	6.1-7.3	0	0	0	0
	19-30	5.0-10	---	5.6-7.3	0	0	0	0
	30-46	5.0-10	---	5.6-7.3	0	0	0	0
	46-56	---	---	---	---	---	---	---
7090:								
Urban land	---	---	---	---	---	---	---	---
Lenz, disturbed	0-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Spokane, disturbed	0-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Swakane, disturbed	0-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
7091:								
Urban land	---	---	---	---	---	---	---	---
Lenz, disturbed	0-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7091:								
Spokane, disturbed---	0-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Swakane, disturbed---	0-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
7101:								
Pits-----------------	---	---	---	---	---	---	---	---
Dumps----------------	---	---	---	---	---	---	---	---
7102:								
Riverwash------------	0-60	---	---	---	---	---	---	---
7103:								
Xerolls, warm, mass wasted----------	0-4	10-25	---	6.1-7.3	0	0	0	0
	4-9	10-25	---	6.1-7.3	0	0	0	0
	9-16	15-30	---	6.1-7.3	0	0	0	0
	16-24	0.0-10	---	6.1-7.3	0	0	0	0
	24-60	0.0-10	---	6.1-7.3	0	0	0	0
Bobbitt--------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-16	10-20	---	6.1-7.3	0	0	0	0
	16-33	15-25	---	5.6-7.3	0	0	0	0
	33-38	15-25	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Brincken, moist, mass wasted---------	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Dearyton-------------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	13-19	---	6.1-7.3	0	0	0	0
	6-12	13-19	---	6.1-7.3	0	0	0	0
	12-18	24-32	---	5.6-7.3	0	0	0	0
	18-28	24-32	---	5.6-7.3	0	0	0	0
	28-38	24-32	---	6.1-7.8	0	0	0	0
	38-55	24-32	---	6.1-7.8	0	0	0	0
	55-60	24-32	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7103:								
Lakespring----------	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Speigle, mass wasted	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---
7104:								
Xerolls, cool, mass wasted----------	0-4	10-25	---	6.1-7.3	0	0	0	0
	4-9	10-25	---	6.1-7.3	0	0	0	0
	9-16	15-30	---	6.1-7.3	0	0	0	0
	16-24	0.0-10	---	6.1-7.3	0	0	0	0
	24-60	0.0-10	---	6.1-7.3	0	0	0	0
Fan Lake----------	0-4	10-20	---	6.1-7.3	0	0	0	0
	4-8	8.0-15	---	6.1-7.3	0	0	0	0
	8-16	5.0-12	---	6.1-7.3	0	0	0	0
	16-24	2.0-8.0	---	6.1-7.3	0	0	0	0
	24-36	5.0-15	---	6.1-7.3	0	0	0	0
	36-51	10-20	---	5.6-7.3	0	0	0	0
	51-57	2.0-6.0	---	5.6-7.3	0	0	0	0
	57-60	10-25	---	5.6-7.3	0	0	0	0
Klickson, mass wasted	0-2	---	20-30	3.5-5.5	0	0	0	0
	2-3	---	20-30	5.5-6.5	0	0	0	0
	3-8	12-20	---	6.1-7.3	0	0	0	0
	8-12	10-18	---	6.1-7.3	0	0	0	0
	12-17	9.0-15	---	5.6-7.3	0	0	0	0
	17-28	10-15	---	5.6-6.5	0	0	0	0
	28-35	10-15	---	5.6-6.5	0	0	0	0
	35-50	8.0-14	---	5.6-6.5	0	0	0	0
	50-60	6.0-10	---	5.6-6.5	0	0	0	0
Lakespring----------	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Green Bluff----------	0-7	8.0-15	---	6.1-7.3	0	0	0	0
	7-17	3.0-12	---	6.1-7.3	0	0	0	0
	17-29	3.0-8.0	---	6.1-7.3	0	0	0	0
	29-55	3.0-8.0	---	6.1-7.3	0	0	0	0
	55-60	6.0-10	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7104:								
Blinn, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	10-20	---	6.1-7.3	0	0	0	0
	6-12	5.0-20	---	6.1-7.3	0	0	0	0
	12-24	10-15	---	6.1-7.3	0	0	0	0
	24-39	5.0-15	---	6.1-7.3	0	0	0	0
	39-49	---	---	---	---	---	---	---
Elmira	0-1	---	20-30	3.5-5.5	0	0	0	0
	1-6	0.0-5.0	---	5.6-7.3	0	0	0	0
	6-12	0.0-2.0	---	5.6-7.3	0	0	0	0
	12-23	0.0-5.0	---	5.6-7.3	0	0	0	0
	23-54	0.0-5.0	---	5.6-7.3	0	0	0	0
	54-66	0.0-5.0	---	5.6-7.3	0	0	0	0
	66-80	0.0-5.0	---	5.6-7.3	0	0	0	0
Kronquist	0-11	10-20	---	6.1-7.3	0	0	0	0
	11-27	10-20	---	6.1-7.3	0	0	0	0
	27-40	10-20	---	6.1-7.3	0	0	0	0
	40-55	10-20	---	6.1-7.3	0	0	0	0
	55-60	10-20	---	6.1-7.3	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---
7105:								
Urban land, gravelly substratum	---	---	---	---	---	---	---	---
Opportunity, disturbed	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
7106:								
Urban land, gravelly substratum	---	---	---	---	---	---	---	---
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Marblespring, disturbed	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7107:								
Urban land, basalt bedrock substratum--	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
7110:								
Urban land----------	---	---	---	---	---	---	---	---
Opportunity, disturbed----------	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Bong, moist, disturbed----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Garrison, disturbed--	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Hardesty, disturbed--	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marblespring, disturbed----------	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7111:								
Urban land----------	---	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7111:								
Opportunity, disturbed	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Bong, moist, disturbed	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Garrison, disturbed	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Hardesty, disturbed	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marblespring, disturbed	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7112:								
Urban land	---	---	---	---	---	---	---	---
Opportunity, disturbed	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Bong, moist, disturbed	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7112:								
Garrison, disturbed--	0-4	15-20	---	5.6-7.3	0	0	0	0
	4-16	10-20	---	5.6-7.3	0	0	0	0
	16-24	4.0-15	---	6.1-7.3	0	0	0	0
	24-60	0.0-4.0	---	6.1-7.8	0	0	0	0
Hardesty, disturbed--	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marblespring, disturbed----------	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7115:								
Urban land----------	---	---	---	---	---	---	---	---
Marblespring, disturbed----------	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Marble, disturbed----	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Opportunity, disturbed----------	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Phoebe, disturbed----	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7115:								
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7116:								
Urban land	---	---	---	---	---	---	---	---
Marblespring, disturbed	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Opportunity, disturbed	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Phoebe, disturbed	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7117:								
Urban land	---	---	---	---	---	---	---	---
Marblespring, disturbed	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7117:								
Opportunity, disturbed	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Phoebe, disturbed	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7120:								
Urban land	---	---	---	---	---	---	---	---
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Marblespring, disturbed	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Hardesty, disturbed	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
7121:								
Urban land	---	---	---	---	---	---	---	---
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Hardesty, disturbed	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7121:								
Hagen, disturbed-----	0-7	5.0-12	---	6.1-7.3	0	0	0	0
	7-15	5.0-10	---	6.1-7.3	0	0	0	0
	15-29	0.0-5.0	---	6.1-7.3	0	0	0	0
	29-52	0.0-5.0	---	6.1-7.3	0	0	0	0
	52-60	0.0-5.0	---	6.1-7.3	0	0	0	0
Marblespring, disturbed-----------	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Phoebe, disturbed----	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
7122:								
Urban land-----------	---	---	---	---	---	---	---	---
Marble, disturbed----	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Bong, moist, disturbed-----------	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty, disturbed--	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Marblespring, disturbed-----------	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7123:								
Urban land----------	---	---	---	---	---	---	---	---
Marble, disturbed----	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---
Rubble land----------	0-60	---	---	---	---	---	---	---
Speigle, disturbed---	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
7130:								
Urban land----------	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
Rockly, disturbed----	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
7131:								
Urban land----------	---	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7131:								
Northstar, disturbed	0-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
Rockly, disturbed----	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7132:								
Urban land----------	---	---	---	---	---	---	---	---
Northstar, disturbed	0-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
Rockly, disturbed----	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Seaboldt, disturbed--	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7134:								
Urban land----------	---	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7134:								
Northstar, disturbed	0-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Rockly, disturbed	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Speigle, disturbed	0-6	10-20	---	6.1-7.3	0	0	0	0
	6-17	10-15	---	6.1-7.3	0	0	0	0
	17-23	10-15	---	6.1-7.3	0	0	0	0
	23-35	7.0-15	---	6.1-7.3	0	0	0	0
	35-44	6.0-12	---	6.1-7.3	0	0	0	0
	44-65	4.0-10	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
7140:								
Urban land	---	---	---	---	---	---	---	---
Uhlig, disturbed	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Seaboldt, warm, disturbed	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Brincken, moist, disturbed	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7140:								
Nez Perce, disturbed	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-10	13-23	---	6.1-7.3	0	0	0	0
	10-19	10-20	---	6.1-7.3	0	0	0	0
	19-30	35-45	---	6.6-7.8	0	0	0	0
	30-42	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
	42-60	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
7150:								
Urban land	---	---	---	---	---	---	---	---
Seaboldt, disturbed	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Brincken, moist, disturbed	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Uhlig, disturbed	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Phoebe, disturbed	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
7151:								
Urban land	---	---	---	---	---	---	---	---
Seaboldt, disturbed	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7151:								
Brincken, moist, disturbed	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Phoebe, disturbed	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Uhlig, disturbed	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
7152:								
Urban land	---	---	---	---	---	---	---	---
Seaboldt, disturbed	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Marblespring, disturbed	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7152:								
Springdale, disturbed, stony surface	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7163:								
Urban land	---	---	---	---	---	---	---	---
Spens, disturbed	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
7170:								
Urban land	---	---	---	---	---	---	---	---
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Marblespring, disturbed	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Opportunity, disturbed	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7171:								
Urban land----------	---	---	---	---	---	---	---	---
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Marblespring, disturbed----------	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Brincken, moist, disturbed----------	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Opportunity, disturbed----------	0-7	3.0-8.0	5.0-7.0	5.1-6.5	0	0	0	0
	7-13	3.0-8.0	---	5.6-7.3	0	0	0	0
	13-19	3.0-8.0	---	5.6-7.3	0	0	0	0
	19-33	3.0-8.0	---	6.1-7.3	0	0	0	0
	33-43	3.0-8.0	---	6.1-7.3	0	0	0	0
	43-53	1.0-5.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-5.0	---	6.6-7.8	1-2	0	0.0-0.2	0
Marble, disturbed----	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
7172:								
Urban land----------	---	---	---	---	---	---	---	---
Springdale, disturbed	0-3	4.0-14	---	5.6-7.3	0	0	0	0
	3-7	3.0-10	---	5.6-7.3	0	0	0	0
	7-13	3.0-9.0	---	5.6-7.3	0	0	0	0
	13-25	0.0-6.0	---	5.6-7.3	0	0	0	0
	25-61	0.0-3.0	---	5.6-7.3	0	0	0	0
Marblespring, disturbed----------	0-2	3.0-7.0	---	5.6-6.5	0	0	0	0
	2-7	3.0-7.0	---	5.6-6.5	0	0	0	0
	7-27	3.0-7.0	---	6.1-7.3	0	0	0	0
	27-51	3.0-7.0	---	6.1-7.3	0	0	0	0
	51-60	0.0-3.0	---	6.1-7.3	0	0	0	0
Spens, disturbed-----	0-3	1.0-4.0	---	6.1-7.3	0	0	0	0
	3-18	2.0-5.0	---	6.1-7.3	0	0	0	0
	18-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7177:								
Urban land	---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Brincken, moist, disturbed	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Nez Perce, disturbed	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-10	13-23	---	6.1-7.3	0	0	0	0
	10-19	10-20	---	6.1-7.3	0	0	0	0
	19-30	35-45	---	6.6-7.8	0	0	0	0
	30-42	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
	42-60	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
Uhlig, disturbed	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Stutler, disturbed	0-5	10-19	---	6.1-6.5	0	0	0	0
	5-12	7.0-16	---	6.1-6.5	0	0	0	0
	12-22	4.0-14	---	6.1-6.5	0	0	0	0
	22-32	4.0-13	---	6.1-7.3	0	0	0	0
	32-42	4.0-13	---	6.6-7.3	0	0	0	0
	42-61	0.0-6.0	---	6.6-7.3	0	0	0	0
7178:								
Urban land	---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Brincken, moist, disturbed	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7178:								
Nez Perce, disturbed	0-6	15-25	---	6.1-7.3	0	0	0	0
	6-10	13-23	---	6.1-7.3	0	0	0	0
	10-19	10-20	---	6.1-7.3	0	0	0	0
	19-30	35-45	---	6.6-7.8	0	0	0	0
	30-42	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
	42-60	35-45	---	7.4-9.0	1-3	0	0.0-1.0	0
Uhlig, disturbed-----	0-4	7.0-17	---	5.6-7.3	0	0	0	0
	4-10	7.0-17	---	5.6-7.3	0	0	0	0
	10-18	7.0-17	---	5.6-7.3	0	0	0	0
	18-32	7.0-15	---	6.1-7.3	0	0	0	0
	32-42	7.0-15	---	6.1-7.3	0	0	0	0
	42-60	3.0-11	---	6.6-7.8	0	0	0	0
Stutler, disturbed---	0-5	10-19	---	6.1-6.5	0	0	0	0
	5-12	7.0-16	---	6.1-6.5	0	0	0	0
	12-22	4.0-14	---	6.1-6.5	0	0	0	0
	22-32	4.0-13	---	6.1-7.3	0	0	0	0
	32-42	4.0-13	---	6.6-7.3	0	0	0	0
	42-61	0.0-6.0	---	6.6-7.3	0	0	0	0
7179:								
Urban land-----------	---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed----------	0-7	10-25	---	6.1-7.3	0	0	0	0
	7-10	10-20	---	6.1-7.3	0	0	0	0
	10-16	5.0-15	---	6.1-7.3	0	0	0	0
	16-23	2.0-10	---	6.1-7.3	0	0	0	0
	23-28	1.0-8.0	---	6.1-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Brincken, moist, disturbed----------	0-7	10-25	---	6.1-7.8	0	0	0	0
	7-13	10-20	---	6.1-7.8	0	0	0	0
	13-19	10-20	---	6.1-7.8	0	0	0	0
	19-29	4.0-20	---	6.1-7.8	0	0	0	0
	29-41	15-25	---	6.6-8.4	0	0	0	0
	41-57	15-25	---	6.6-8.4	0	0	0	0
	57-60	15-40	---	6.6-8.4	0	0	0	0
Rockly, disturbed----	0-3	10-25	---	6.1-7.3	0	0	0	0
	3-6	5.0-15	---	6.1-7.3	0	0	0	0
	6-16	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
7180:								
Urban land-----------	---	---	---	---	---	---	---	---
Phoebe, disturbed----	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7180:								
Bong, moist, disturbed	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty, disturbed	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
7181:								
Urban land	---	---	---	---	---	---	---	---
Phoebe, disturbed	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0
Bong, moist, disturbed	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Hardesty, disturbed	0-4	15-25	---	6.1-7.3	0	0	0	0
	4-11	10-20	---	6.1-7.3	0	0	0	0
	11-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-32	6.0-10	---	6.1-7.3	0	0	0	0
	32-39	1.0-5.0	---	6.1-7.3	0	0	0	0
	39-60	1.0-3.0	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
7182:								
Urban land	---	---	---	---	---	---	---	---
Phoebe, disturbed	0-8	6.0-8.0	---	6.1-7.3	0	0	0	0
	8-16	3.0-6.0	---	6.1-7.3	0	0	0	0
	16-25	3.0-5.0	---	6.1-7.3	0	0	0	0
	25-34	3.0-5.0	---	6.1-7.3	0	0	0	0
	34-44	0.0-2.0	---	6.1-7.3	0	0	0	0
	44-60	0.0-2.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7182:								
Bong, moist, disturbed	0-11	5.0-10	---	6.1-7.3	0	0	0	0
	11-22	4.0-8.0	---	6.1-7.8	0	0	0	0
	22-28	4.0-8.0	---	6.1-7.8	0	0	0	0
	28-60	1.0-3.0	---	6.1-7.8	0	0	0	0
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
7190:								
Urban land	---	---	---	---	---	---	---	---
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0
Northstar, disturbed	0-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
7191:								
Urban land	---	---	---	---	---	---	---	---
Lakespring, disturbed	0-7	8.0-12	---	6.1-7.3	0	0	0	0
	7-21	9.0-12	---	6.1-7.3	0	0	0	0
	21-34	9.0-12	---	6.1-7.3	0	0	0	0
	34-39	13-22	---	6.1-7.3	0	0	0	0
	39-50	13-20	---	6.1-7.3	0	0	0	0
	50-72	13-22	---	6.1-7.3	0	0	0	0
Marble, disturbed	0-4	1.0-6.0	---	6.1-7.3	0	0	0	0
	4-8	1.0-6.0	---	6.1-7.3	0	0	0	0
	8-27	1.0-4.0	---	6.1-7.3	0	0	0	0
	27-53	1.0-4.0	---	6.1-7.3	0	0	0	0
	53-60	1.0-4.0	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
7191:								
Northstar, disturbed	0-6	12-18	---	5.6-6.5	0	0	0	0
	6-11	8.0-12	---	5.6-6.5	0	0	0	0
	11-17	5.0-10	---	6.1-6.5	0	0	0	0
	17-26	5.0-9.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
7197:								
Urban land	---	---	---	---	---	---	---	---
Spokane, disturbed	0-4	8.0-10	---	6.1-7.3	0	0	0	0
	4-10	7.0-9.0	---	6.1-7.3	0	0	0	0
	10-18	2.0-6.0	---	6.1-7.3	0	0	0	0
	18-26	1.0-3.0	---	6.1-7.3	0	0	0	0
	26-36	---	---	---	---	---	---	---
Lenz, disturbed	0-4	5.0-12	---	6.1-7.3	0	0	0	0
	4-9	5.0-12	---	6.1-7.3	0	0	0	0
	9-14	5.0-12	---	6.1-7.3	0	0	0	0
	14-26	1.0-4.0	---	6.1-7.3	0	0	0	0
	26-38	1.0-4.0	---	5.6-7.3	0	0	0	0
	38-48	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
Swakane, disturbed	0-3	8.0-12	---	5.6-6.5	0	0	0	0
	3-9	3.0-7.0	---	5.6-6.5	0	0	0	0
	9-13	1.0-3.0	---	5.6-6.5	0	0	0	0
	13-17	1.0-3.0	---	5.6-6.5	0	0	0	0
	17-19	0.0-2.0	---	5.6-6.5	0	0	0	0
	19-29	---	---	---	---	---	---	---
7200:								
Rock outcrop, cliffs	0-60	---	---	---	---	---	---	---
Rubble land, cliffs	0-60	---	---	---	---	---	---	---
8000:								
Pywell	0-6	50-100	15-40	4.5-6.0	0	0	0	0
	6-14	50-100	15-40	4.5-6.0	0	0	0	0
	14-27	40-80	15-30	4.5-6.0	0	0	0	0
	27-31	75-125	10-55	4.5-5.5	0	0	0	0
	31-45	75-125	20-55	4.5-6.0	0	0	0	0
	45-60	75-125	---	4.5-6.0	0	0	0	0
Bellslake	0-6	25-40	---	5.1-6.5	0	0	0	0
	6-10	20-35	---	5.1-6.5	0	0	0	0
	10-18	20-35	---	5.1-6.5	0	0	0	0
	18-30	25-40	---	5.1-6.5	0	0	0	0
	30-48	40-80	---	5.1-6.5	0	0	0	0
	48-55	50-100	---	5.1-6.5	0	0	0	0
	55-65	50-100	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
8000:								
Hoodoo	0-10	10-20	---	5.6-6.5	0	0	0	0
	10-18	10-20	---	6.1-7.3	0	0	0	0
	18-23	8.0-12	---	6.1-7.3	0	0	0	0
	23-40	8.0-12	---	6.1-7.3	0	0	0	0
	40-52	8.0-12	---	6.1-7.3	0	0	0	0
	52-60	8.0-12	---	6.1-7.3	0	0	0	0
8001:								
Saltese	0-5	50-110	---	4.5-7.3	0	0	0	0
	5-12	50-175	---	4.5-7.3	0	0	0	0
	12-16	50-175	---	4.5-7.3	0	0	0	0
	16-24	50-175	---	4.5-7.3	0	0	0	0
	24-40	50-175	---	4.5-7.3	0	0	0	0
	40-60	50-175	---	4.5-7.3	0	0	0	0
Cocolalla	0-11	15-30	---	5.6-7.3	0	0	0.0-2.0	0
	11-28	15-25	---	5.6-7.3	0	0	0.0-2.0	0
	28-37	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	37-43	0.0-5.0	---	6.6-7.8	0	0	0.0-2.0	0
	43-54	5.0-15	---	6.6-7.8	0	0	0.0-2.0	0
	54-60	5.0-25	---	6.6-7.8	0	0	0.0-2.0	0
Narcisse	0-8	12-16	---	6.1-7.3	0	0	0	0
	8-14	10-16	---	6.1-7.3	0	0	0	0
	14-25	9.0-15	---	6.1-7.3	0	0	0	0
	25-34	4.0-7.0	---	6.1-7.3	0	0	0	0
	34-48	2.0-6.0	---	6.1-7.3	0	0	0	0
	48-60	2.0-6.0	---	6.1-7.3	0	0	0	0
Water	---	---	---	---	---	---	---	---
8002:								
Saltese, drained	0-5	50-110	---	4.5-7.3	0	0	0	0
	5-12	50-175	---	4.5-7.3	0	0	0	0
	12-16	50-175	---	4.5-7.3	0	0	0	0
	16-24	50-175	---	4.5-7.3	0	0	0	0
	24-40	50-175	---	4.5-7.3	0	0	0	0
	40-60	50-175	---	4.5-7.3	0	0	0	0
Fluvaquentic Haplosaprists	0-15	50-110	---	4.5-7.3	0	0	0	0
	15-25	50-175	---	4.5-7.3	0	0	0	0
	25-50	50-175	---	4.5-7.3	0	0	0	0
	50-60	0.0-5.0	---	4.5-7.3	0	0	0	0
Peone, drained	0-6	10-25	---	6.1-7.3	0	0	0	0
	6-11	10-20	---	6.1-7.3	0	0	0	0
	11-30	5.0-20	---	6.1-7.3	0	0	0	0
	30-42	5.0-15	---	6.1-7.3	0	0	0	0
	42-60	5.0-10	---	5.6-7.3	0	0	0	0
Endoaquolls	0-5	10-30	---	6.1-7.3	0	0	0	0
	5-11	5.0-30	---	6.1-7.3	0	0	0	0
	11-19	5.0-20	---	6.1-7.3	0	0	0	0
	19-28	5.0-20	---	6.1-7.3	0	0	0	0
	28-45	0.0-15	---	6.1-7.3	0	0	0	0
	45-60	0.0-10	---	6.1-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9124:								
Caldwell----------	0-4	14-20	---	6.1-7.3	0	0	0	0
	4-10	13-21	---	6.1-7.3	0	0	0	0
	10-16	13-23	---	6.1-7.3	0	0	0	0
	16-21	16-23	---	6.1-7.3	0	0	0	0
	21-30	15-23	---	6.1-7.3	0	0	0	0
	30-40	15-22	---	6.6-7.3	0	0	0	0
	40-52	15-28	---	6.6-7.3	0	0	0	0
	52-60	14-28	---	6.6-7.3	0	0	0	0
Cald----------	0-7	14-20	---	6.1-7.3	0	0	0	0
	7-13	13-22	---	5.6-7.3	0	0	0	0
	13-17	9.1-22	---	5.6-7.3	0	0	0	0
	17-25	5.6-23	---	6.1-7.3	0	0	0	0
	25-40	16-28	---	6.1-7.8	0	0	0	0
	40-48	16-28	---	6.1-7.8	0	0	0	0
	48-60	16-27	---	6.1-7.8	0	0	0	0
Endoaquolls----------	0-10	25-35	---	6.1-7.3	0	0	0	0
	10-20	20-30	---	6.1-7.3	0	0	0	0
	20-30	15-25	---	6.1-7.3	0	0	0	0
	30-40	18-28	---	6.6-7.3	0	0	0	0
	40-52	18-32	---	6.6-7.3	0	0	0	0
	52-60	18-32	---	6.6-7.3	0	0	0	0
Thatuna----------	0-6	14-21	---	5.6-7.3	0	0	0	0
	6-12	14-20	---	5.6-7.3	0	0	0	0
	12-19	14-20	---	5.6-7.3	0	0	0	0
	19-28	15-21	---	6.1-7.3	0	0	0	0
	28-35	8.5-13	---	6.1-7.3	0	0	0	0
	35-43	18-26	---	6.1-7.3	0	0	0	0
	43-52	18-26	---	6.1-7.3	0	0	0	0
	52-60	18-26	---	6.1-7.3	0	0	0	0
Latah----------	0-10	13-19	---	6.1-7.8	0	0	0	0
	10-14	12-19	---	6.1-7.8	0	0	0	0
	14-19	11-17	---	6.6-7.8	0	0	0	0
	19-22	7.1-11	---	6.6-7.8	0	0	0	0
	22-31	24-31	---	6.6-7.8	0	0	0	0
	31-38	26-34	---	6.6-7.8	0	0	0	0
	38-60	23-34	---	6.6-7.8	0	0	0	0
9300:								
Taney----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	---	5.4-11	4.5-6.0	0	0	0	0
	31-53	---	12-17	4.5-5.5	0	0	0	0
	53-60	18-29	---	5.6-7.3	0	0	0	0
Carlinton, dry-------	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9300:								
Latahco	0-13	14-22	---	5.6-7.3	0	0	0	0
	13-20	5.5-17	---	5.6-7.3	0	0	0	0
	20-26	20-28	---	6.1-7.3	0	0	0	0
	26-42	19-28	---	7.4-8.4	2-4	0	0	0
	42-51	19-27	---	6.6-7.8	0	0	0	0
	51-62	16-23	---	7.4-8.4	0-4	0	0	0
Setters	0-4	14-20	---	5.3-6.0	0	0	0	0
	4-15	---	10-17	5.1-6.0	0	0	0	0
	15-19	13-20	---	5.6-6.5	0	0	0	0
	19-22	10-16	---	5.6-6.5	0	0	0	0
	22-60	26-34	---	6.5-7.3	0	0	0	0
Southwick	0-6	6.6-14	---	5.6-6.5	0	0	0	0
	6-13	6.5-14	---	5.6-6.5	0	0	0	0
	13-28	8.1-14	---	6.1-7.3	0	0	0	0
	28-31	4.3-8.6	---	6.1-7.3	0	0	0	0
	31-49	13-18	---	6.1-7.3	0	0	0	0
	49-54	13-18	---	6.1-7.3	0	0	0	0
	54-70	11-18	---	6.1-7.3	0	0	0	0
9301:								
Taney	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	---	5.4-11	4.5-6.0	0	0	0	0
	31-53	---	12-17	4.5-5.5	0	0	0	0
	53-60	18-29	---	5.6-7.3	0	0	0	0
Carlinton, dry	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0
Benewah	0-6	8.2-21	---	5.6-7.3	0	0	0	0
	6-15	6.3-14	---	5.1-6.5	0	0	0	0
	15-18	---	6.9-14	5.1-6.5	0	0	0	0
	18-23	---	9.1-12	4.5-6.5	0	0	0	0
	23-34	8.0-17	---	4.5-6.5	0	0	0	0
	34-60	---	7.6-13	4.5-6.5	0	0	0	0
Setters	0-4	14-20	---	5.3-6.0	0	0	0	0
	4-15	---	10-17	5.1-6.0	0	0	0	0
	15-19	13-20	---	5.6-6.5	0	0	0	0
	19-22	10-16	---	5.6-6.5	0	0	0	0
	22-60	26-34	---	6.5-7.3	0	0	0	0
Latahco	0-13	14-22	---	5.6-7.3	0	0	0	0
	13-20	5.5-17	---	5.6-7.3	0	0	0	0
	20-26	20-28	---	6.1-7.3	0	0	0	0
	26-42	19-28	---	7.4-8.4	2-4	0	0	0
	42-51	19-27	---	6.6-7.8	0	0	0	0
	51-62	16-23	---	7.4-8.4	0-4	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9330:								
Carlinton	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0
Carlinton, dry	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0
Lovell	0-8	13-25	---	5.6-7.0	0	0	0	0
	8-18	10-22	---	5.6-7.0	0	0	0	0
	18-22	9.9-19	---	5.6-7.0	0	0	0	0
	22-34	10-19	---	6.1-7.3	0	0	0	0
	34-51	10-17	---	6.6-7.3	0	0	0	0
	51-60	8.8-15	---	6.6-7.3	0	0	0	0
Taney	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	---	5.4-11	4.5-6.0	0	0	0	0
	31-53	---	12-17	4.5-5.5	0	0	0	0
	53-60	18-29	---	5.6-7.3	0	0	0	0
Benewah	0-6	8.2-21	---	5.6-7.3	0	0	0	0
	6-15	6.3-14	---	5.1-6.5	0	0	0	0
	15-18	---	6.9-14	5.1-6.5	0	0	0	0
	18-23	---	9.1-12	4.5-6.5	0	0	0	0
	23-34	8.0-17	---	4.5-6.5	0	0	0	0
	34-60	---	7.6-13	4.5-6.5	0	0	0	0
9335:								
Carlinton, dry	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0
Carlinton	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9335:								
Taney	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	---	5.4-11	4.5-6.0	0	0	0	0
	31-53	---	12-17	4.5-5.5	0	0	0	0
	53-60	18-29	---	5.6-7.3	0	0	0	0
Benewah	0-6	8.2-21	---	5.6-7.3	0	0	0	0
	6-15	6.3-14	---	5.1-6.5	0	0	0	0
	15-18	---	6.9-14	5.1-6.5	0	0	0	0
	18-23	---	9.1-12	4.5-6.5	0	0	0	0
	23-34	8.0-17	---	4.5-6.5	0	0	0	0
	34-60	---	7.6-13	4.5-6.5	0	0	0	0
Lovell	0-8	13-25	---	5.6-7.0	0	0	0	0
	8-18	10-22	---	5.6-7.0	0	0	0	0
	18-22	9.9-19	---	5.6-7.0	0	0	0	0
	22-34	10-19	---	6.1-7.3	0	0	0	0
	34-51	10-17	---	6.6-7.3	0	0	0	0
	51-60	8.8-15	---	6.6-7.3	0	0	0	0
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	9.3-15	---	5.6-6.5	0	0	0	0
	4-9	9.7-15	---	5.6-6.5	0	0	0	0
	9-15	10-15	---	5.6-6.5	0	0	0	0
	15-34	7.1-13	---	4.5-6.0	0	0	0	0
	34-44	16-27	---	5.1-6.0	0	0	0	0
	44-60	18-26	---	5.6-6.5	0	0	0	0
9336:								
Carlinton, dry	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0
Taney	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	---	5.4-11	4.5-6.0	0	0	0	0
	31-53	---	12-17	4.5-5.5	0	0	0	0
	53-60	18-29	---	5.6-7.3	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9336:								
Carlinton	0-5	---	6.0-10	5.1-6.0	0	0	0	0
	5-10	---	5.9-10	5.1-6.0	0	0	0	0
	10-14	9.7-17	---	5.6-6.5	0	0	0	0
	14-20	10-18	---	5.6-6.5	0	0	0	0
	20-23	7.9-13	---	5.1-6.5	0	0	0	0
	23-30	16-25	---	5.6-6.5	0	0	0	0
	30-53	19-28	---	5.6-7.3	0	0	0	0
	53-60	18-26	---	5.6-7.3	0	0	0	0
Benewah	0-6	8.2-21	---	5.6-7.3	0	0	0	0
	6-15	6.3-14	---	5.1-6.5	0	0	0	0
	15-18	---	6.9-14	5.1-6.5	0	0	0	0
	18-23	---	9.1-12	4.5-6.5	0	0	0	0
	23-34	8.0-17	---	4.5-6.5	0	0	0	0
	34-60	---	7.6-13	4.5-6.5	0	0	0	0
Santa	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	9.3-15	---	5.6-6.5	0	0	0	0
	4-9	9.7-15	---	5.6-6.5	0	0	0	0
	9-15	10-15	---	5.6-6.5	0	0	0	0
	15-34	7.1-13	---	4.5-6.0	0	0	0	0
	34-44	16-27	---	5.1-6.0	0	0	0	0
	44-60	18-26	---	5.6-6.5	0	0	0	0
Latahco	0-13	14-22	---	5.6-7.3	0	0	0	0
	13-20	5.5-17	---	5.6-7.3	0	0	0	0
	20-26	20-28	---	6.1-7.3	0	0	0	0
	26-42	19-28	---	7.4-8.4	2-4	0	0	0
	42-51	19-27	---	6.6-7.8	0	0	0	0
	51-62	16-23	---	7.4-8.4	0-4	0	0	0
9340:								
Arson	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9340:								
Ardenvoir, dry-------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Bechtel----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	9.1-14	---	6.1-7.3	0	0	0	0
	4-9	8.9-13	---	5.6-6.5	0	0	0	0
	9-17	12-16	---	5.1-6.5	0	0	0	0
	17-26	12-20	---	5.1-6.5	0	0	0	0
	26-35	14-20	---	5.1-6.5	0	0	0	0
	35-56	---	5.3-12	5.1-6.0	0	0	0	0
	56-66	---	---	---	---	---	---	---
Sinkler----------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	8.3-14	---	5.6-6.5	0	0	0	0
	6-12	9.7-15	---	5.6-6.5	0	0	0	0
	12-20	13-17	---	5.6-6.5	0	0	0	0
	20-28	14-20	---	5.6-6.5	0	0	0	0
	28-38	15-21	---	5.6-6.5	0	0	0	0
	38-51	18-25	---	5.6-6.5	0	0	0	0
	51-60	19-28	---	5.6-6.5	0	0	0	0
9341:								
Sinkler----------	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	8.3-14	---	5.6-6.5	0	0	0	0
	6-12	9.7-15	---	5.6-6.5	0	0	0	0
	12-20	13-17	---	5.6-6.5	0	0	0	0
	20-28	14-20	---	5.6-6.5	0	0	0	0
	28-38	15-21	---	5.6-6.5	0	0	0	0
	38-51	18-25	---	5.6-6.5	0	0	0	0
	51-60	19-28	---	5.6-6.5	0	0	0	0
Arson----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
Benewah----------	0-6	8.2-21	---	5.6-7.3	0	0	0	0
	6-15	6.3-14	---	5.1-6.5	0	0	0	0
	15-18	---	6.4-14	5.1-6.5	0	0	0	0
	18-23	---	9.1-12	4.5-6.5	0	0	0	0
	23-34	8.0-17	---	4.5-6.5	0	0	0	0
	34-60	---	7.6-13	4.5-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9341:								
Sharptop----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	8.4-17	---	6.1-7.3	0	0	0	0
	4-9	7.8-17	---	6.1-7.3	0	0	0	0
	9-17	6.8-15	---	5.6-6.5	0	0	0	0
	17-27	8.0-15	---	5.6-6.5	0	0	0	0
	27-42	7.1-15	---	5.6-6.5	0	0	0	0
	42-49	7.3-16	---	5.6-6.5	0	0	0	0
	49-59	---	---	---	---	---	---	---
Bechtel----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	9.1-14	---	6.1-7.3	0	0	0	0
	4-9	8.9-13	---	5.6-6.5	0	0	0	0
	9-17	12-16	---	5.1-6.5	0	0	0	0
	17-26	12-20	---	5.1-6.5	0	0	0	0
	26-35	14-20	---	5.1-6.5	0	0	0	0
	35-56	---	5.3-12	5.1-6.0	0	0	0	0
	56-66	---	---	---	---	---	---	---
Grangemont, warm-----	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	15-30	---	6.1-7.3	0	0	0	0
	4-10	10-25	---	6.1-7.3	0	0	0	0
	10-18	10-15	---	5.1-6.5	0	0	0	0
	18-25	10-15	---	5.1-6.5	0	0	0	0
	25-34	12-18	---	5.1-5.5	0	0	0	0
	34-42	12-18	---	5.1-5.5	0	0	0	0
	42-53	---	6.0-12	5.1-6.0	0	0	0	0
	53-63	---	6.8-12	5.1-6.0	0	0	0	0
9342:								
Sinkler, dry---------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-8	8.3-14	---	5.6-6.5	0	0	0	0
	8-14	11-19	---	5.6-6.5	0	0	0	0
	14-20	13-20	---	5.6-6.5	0	0	0	0
	20-33	15-24	---	5.6-6.5	0	0	0	0
	33-44	15-23	---	5.6-6.5	0	0	0	0
	44-62	17-25	---	5.6-6.5	0	0	0	0
Arson, dry----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
Ardenvoir, dry-------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9342:								
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Sinkler	0-0.5	---	20-30	4.5-5.5	0	0	0	0
	0.5-1	---	20-30	4.5-5.5	0	0	0	0
	1-6	8.3-14	---	5.6-6.5	0	0	0	0
	6-12	9.7-15	---	5.6-6.5	0	0	0	0
	12-20	13-17	---	5.6-6.5	0	0	0	0
	20-28	14-20	---	5.6-6.5	0	0	0	0
	28-38	15-21	---	5.6-6.5	0	0	0	0
	38-51	18-25	---	5.6-6.5	0	0	0	0
	51-60	19-28	---	5.6-6.5	0	0	0	0
9350:								
Southwick	0-6	6.6-14	---	5.6-6.5	0	0	0	0
	6-13	6.5-14	---	5.6-6.5	0	0	0	0
	13-28	8.1-14	---	6.1-7.3	0	0	0	0
	28-31	4.3-8.6	---	6.1-7.3	0	0	0	0
	31-49	13-18	---	6.1-7.3	0	0	0	0
	49-54	13-18	---	6.1-7.3	0	0	0	0
	54-70	11-18	---	6.1-7.3	0	0	0	0
Larkin	0-6	13-22	---	5.6-6.5	0	0	0	0
	6-14	13-21	---	5.6-6.5	0	0	0	0
	14-22	15-24	---	6.1-7.3	0	0	0	0
	22-39	17-23	---	6.1-7.3	0	0	0	0
	39-60	19-27	---	6.1-7.3	0	0	0	0
Latahco	0-13	14-22	---	5.6-7.3	0	0	0	0
	13-20	5.5-17	---	5.6-7.3	0	0	0	0
	20-26	20-28	---	6.1-7.3	0	0	0	0
	26-42	19-28	---	7.4-8.4	2-4	0	0	0
	42-51	19-27	---	6.6-7.8	0	0	0	0
	51-62	16-23	---	7.4-8.4	0-4	0	0	0
Cald	0-7	14-20	---	6.1-7.3	0	0	0	0
	7-13	13-22	---	5.6-7.3	0	0	0	0
	13-17	9.1-22	---	5.6-7.3	0	0	0	0
	17-25	5.6-23	---	6.1-7.3	0	0	0	0
	25-40	16-28	---	6.1-7.8	0	0	0	0
	40-48	16-28	---	6.1-7.8	0	0	0	0
	48-60	16-27	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9350:								
Driscoll	0-5	13-22	---	5.6-6.5	0	0	0	0
	5-10	13-21	---	5.6-6.5	0	0	0	0
	10-17	15-21	---	5.6-6.5	0	0	0	0
	17-24	12-20	---	6.1-7.3	0	0	0	0
	24-26	8.4-19	---	6.1-7.3	0	0	0	0
	26-42	23-36	---	6.1-7.3	0	0	0	0
	42-49	23-34	---	6.1-7.3	0	0	0	0
	49-60	21-30	---	6.6-7.8	0	0	0	0
Taney	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	---	5.4-11	4.5-6.0	0	0	0	0
	31-53	---	12-17	4.5-5.5	0	0	0	0
	53-60	18-29	---	5.6-7.3	0	0	0	0
9355:								
Southwick	0-6	6.6-14	---	5.6-6.5	0	0	0	0
	6-13	6.5-14	---	5.6-6.5	0	0	0	0
	13-28	8.1-14	---	6.1-7.3	0	0	0	0
	28-31	4.3-8.6	---	6.1-7.3	0	0	0	0
	31-49	13-18	---	6.1-7.3	0	0	0	0
	49-54	13-18	---	6.1-7.3	0	0	0	0
	54-70	11-18	---	6.1-7.3	0	0	0	0
Driscoll	0-5	13-22	---	5.6-6.5	0	0	0	0
	5-10	13-21	---	5.6-6.5	0	0	0	0
	10-17	15-21	---	5.6-6.5	0	0	0	0
	17-24	12-20	---	6.1-7.3	0	0	0	0
	24-26	8.4-19	---	6.1-7.3	0	0	0	0
	26-42	23-36	---	6.1-7.3	0	0	0	0
	42-49	23-34	---	6.1-7.3	0	0	0	0
	49-60	21-30	---	6.6-7.8	0	0	0	0
Larkin	0-6	13-22	---	5.6-6.5	0	0	0	0
	6-14	13-21	---	5.6-6.5	0	0	0	0
	14-22	15-24	---	6.1-7.3	0	0	0	0
	22-39	17-23	---	6.1-7.3	0	0	0	0
	39-60	19-27	---	6.1-7.3	0	0	0	0
Latahco	0-13	14-22	---	5.6-7.3	0	0	0	0
	13-20	5.5-17	---	5.6-7.3	0	0	0	0
	20-26	20-28	---	6.1-7.3	0	0	0	0
	26-42	19-28	---	7.4-8.4	2-4	0	0	0
	42-51	19-27	---	6.6-7.8	0	0	0	0
	51-62	16-23	---	7.4-8.4	0-4	0	0	0
Cald	0-7	14-20	---	6.1-7.3	0	0	0	0
	7-13	13-22	---	5.6-7.3	0	0	0	0
	13-17	9.1-22	---	5.6-7.3	0	0	0	0
	17-25	5.6-23	---	6.1-7.3	0	0	0	0
	25-40	16-28	---	6.1-7.8	0	0	0	0
	40-48	16-28	---	6.1-7.8	0	0	0	0
	48-60	16-27	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9355:								
Garfield	0-5	15-21	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	26-34	---	6.6-7.8	0	0	0	0
	19-32	26-34	---	6.6-7.8	0	0	0	0
	32-45	16-30	---	6.6-8.4	0	0	0	0
	45-60	16-30	---	6.6-8.4	0	0	0	0
9356:								
Southwick	0-6	6.6-14	---	5.6-6.5	0	0	0	0
	6-13	6.5-14	---	5.6-6.5	0	0	0	0
	13-28	8.1-14	---	6.1-7.3	0	0	0	0
	28-31	4.3-8.6	---	6.1-7.3	0	0	0	0
	31-49	13-18	---	6.1-7.3	0	0	0	0
	49-54	13-18	---	6.1-7.3	0	0	0	0
	54-70	11-18	---	6.1-7.3	0	0	0	0
Driscoll	0-5	13-22	---	5.6-6.5	0	0	0	0
	5-10	13-21	---	5.6-6.5	0	0	0	0
	10-17	15-21	---	5.6-6.5	0	0	0	0
	17-24	12-20	---	6.1-7.3	0	0	0	0
	24-26	8.4-19	---	6.1-7.3	0	0	0	0
	26-42	23-36	---	6.1-7.3	0	0	0	0
	42-49	23-34	---	6.1-7.3	0	0	0	0
	49-60	21-30	---	6.6-7.8	0	0	0	0
Larkin	0-6	13-22	---	5.6-6.5	0	0	0	0
	6-14	13-21	---	5.6-6.5	0	0	0	0
	14-22	15-24	---	6.1-7.3	0	0	0	0
	22-39	17-23	---	6.1-7.3	0	0	0	0
	39-60	19-27	---	6.1-7.3	0	0	0	0
Garfield	0-7	21-29	---	5.6-7.3	0	0	0	0
	7-19	26-34	---	6.6-7.8	0	0	0	0
	19-32	26-34	---	6.6-7.8	0	0	0	0
	32-45	16-30	---	6.6-8.4	0	0	0	0
	45-60	16-30	---	6.6-8.4	0	0	0	0
Cald	0-7	14-20	---	6.1-7.3	0	0	0	0
	7-13	13-22	---	5.6-7.3	0	0	0	0
	13-17	9.1-22	---	5.6-7.3	0	0	0	0
	17-25	5.6-23	---	6.1-7.3	0	0	0	0
	25-40	16-28	---	6.1-7.8	0	0	0	0
	40-48	16-28	---	6.1-7.8	0	0	0	0
	48-60	16-27	---	6.1-7.8	0	0	0	0
9363:								
Larkin	0-6	13-22	---	5.6-6.5	0	0	0	0
	6-14	13-21	---	5.6-6.5	0	0	0	0
	14-22	15-24	---	6.1-7.3	0	0	0	0
	22-39	17-23	---	6.1-7.3	0	0	0	0
	39-60	19-27	---	6.1-7.3	0	0	0	0
Driscoll	0-5	13-22	---	5.6-6.5	0	0	0	0
	5-10	13-21	---	5.6-6.5	0	0	0	0
	10-17	15-21	---	5.6-6.5	0	0	0	0
	17-24	12-20	---	6.1-7.3	0	0	0	0
	24-26	8.4-19	---	6.1-7.3	0	0	0	0
	26-42	23-36	---	6.1-7.3	0	0	0	0
	42-49	23-34	---	6.1-7.3	0	0	0	0
	49-60	21-30	---	6.6-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9363:								
Southwick	0-6	6.6-14	---	5.6-6.5	0	0	0	0
	6-13	6.5-14	---	5.6-6.5	0	0	0	0
	13-28	8.1-14	---	6.1-7.3	0	0	0	0
	28-31	4.3-8.6	---	6.1-7.3	0	0	0	0
	31-49	13-18	---	6.1-7.3	0	0	0	0
	49-54	13-18	---	6.1-7.3	0	0	0	0
	54-70	11-18	---	6.1-7.3	0	0	0	0
Latahco	0-13	14-22	---	5.6-7.3	0	0	0	0
	13-20	5.5-17	---	5.6-7.3	0	0	0	0
	20-26	20-28	---	6.5-7.3	0	0	0	0
	26-42	19-28	---	6.1-8.4	2-4	0	0	0
	42-51	19-27	---	7.4-7.8	0	0	0	0
	51-62	16-23	---	6.6-8.4	0-4	0	0	0
Cald	0-7	14-20	---	6.1-7.3	0	0	0	0
	7-13	13-22	---	5.6-7.3	0	0	0	0
	13-17	9.1-22	---	5.6-7.3	0	0	0	0
	17-25	5.6-23	---	6.1-7.3	0	0	0	0
	25-40	16-28	---	6.1-7.8	0	0	0	0
	40-48	16-28	---	6.1-7.8	0	0	0	0
	48-60	16-27	---	6.1-7.8	0	0	0	0
Garfield	0-5	15-21	---	5.6-7.3	0	0	0	0
	5-8	15-25	---	5.6-7.3	0	0	0	0
	8-19	26-34	---	6.6-7.8	0	0	0	0
	19-32	26-34	---	6.6-7.8	0	0	0	0
	32-45	16-30	---	6.6-8.4	0	0	0	0
	45-60	16-30	---	6.6-8.4	0	0	0	0
9364:								
Larkin	0-6	13-22	---	5.6-6.5	0	0	0	0
	6-14	13-21	---	5.6-6.5	0	0	0	0
	14-22	15-24	---	6.1-7.3	0	0	0	0
	22-39	17-23	---	6.1-7.3	0	0	0	0
	39-60	19-27	---	6.1-7.3	0	0	0	0
Southwick	0-6	6.6-14	---	5.6-6.5	0	0	0	0
	6-13	6.5-14	---	5.6-6.5	0	0	0	0
	13-28	8.1-14	---	6.1-7.3	0	0	0	0
	28-31	4.3-8.6	---	6.1-7.3	0	0	0	0
	31-49	13-18	---	6.1-7.3	0	0	0	0
	49-54	13-18	---	6.1-7.3	0	0	0	0
	54-70	11-18	---	6.1-7.3	0	0	0	0
Driscoll	0-5	13-22	---	5.6-6.5	0	0	0	0
	5-10	13-21	---	5.6-6.5	0	0	0	0
	10-17	15-21	---	5.6-6.5	0	0	0	0
	17-24	12-20	---	6.1-7.3	0	0	0	0
	24-26	8.4-19	---	6.1-7.3	0	0	0	0
	26-42	23-36	---	6.1-7.3	0	0	0	0
	42-49	23-34	---	6.1-7.3	0	0	0	0
	49-60	21-30	---	6.6-7.8	0	0	0	0
Latahco	0-13	14-22	---	5.6-7.3	0	0	0	0
	13-20	5.5-17	---	5.6-7.3	0	0	0	0
	20-26	20-28	---	6.1-7.3	0	0	0	0
	26-42	19-28	---	7.4-8.4	2-4	0	0	0
	42-51	19-27	---	6.1-7.8	0	0	0	0
	51-62	16-23	---	7.4-8.4	0-4	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9364:								
Cald	0-7	14-20	---	6.1-7.3	0	0	0	0
	7-13	13-22	---	5.6-7.3	0	0	0	0
	13-17	9.1-22	---	5.6-7.3	0	0	0	0
	17-25	5.6-23	---	6.1-7.3	0	0	0	0
	25-40	16-28	---	6.1-7.8	0	0	0	0
	40-48	16-28	---	6.1-7.8	0	0	0	0
	48-60	16-27	---	6.1-7.8	0	0	0	0
Taney	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	14-20	---	6.1-7.3	0	0	0	0
	4-15	13-20	---	6.1-7.3	0	0	0	0
	15-22	14-18	---	6.1-7.3	0	0	0	0
	22-29	14-19	---	6.1-7.3	0	0	0	0
	29-31	---	5.4-11	4.5-6.0	0	0	0	0
	31-53	---	12-17	4.5-5.5	0	0	0	0
	53-60	18-29	---	5.6-7.3	0	0	0	0
9367:								
Larkin	0-6	13-22	---	5.6-6.5	0	0	0	0
	6-14	13-21	---	5.6-6.5	0	0	0	0
	14-22	15-24	---	6.1-7.3	0	0	0	0
	22-39	17-23	---	6.1-7.3	0	0	0	0
	39-60	19-27	---	6.1-7.3	0	0	0	0
Driscoll	0-5	13-22	---	5.6-6.5	0	0	0	0
	5-10	13-21	---	5.6-6.5	0	0	0	0
	10-17	15-21	---	5.6-6.5	0	0	0	0
	17-24	12-20	---	6.1-7.3	0	0	0	0
	24-26	8.4-19	---	6.1-7.3	0	0	0	0
	26-42	23-36	---	6.1-7.3	0	0	0	0
	42-49	23-34	---	6.1-7.3	0	0	0	0
	49-60	21-30	---	6.6-7.8	0	0	0	0
Garfield	0-7	21-29	---	5.6-7.3	0	0	0	0
	7-19	26-34	---	6.6-7.8	0	0	0	0
	19-32	26-34	---	6.6-7.8	0	0	0	0
	32-45	16-30	---	6.6-8.4	0	0	0	0
	45-60	16-30	---	6.6-8.4	0	0	0	0
Southwick	0-6	6.6-14	---	5.6-6.5	0	0	0	0
	6-13	6.5-14	---	5.6-6.5	0	0	0	0
	13-28	8.1-14	---	6.1-7.3	0	0	0	0
	28-31	4.3-8.6	---	6.1-7.3	0	0	0	0
	31-49	13-18	---	6.1-7.3	0	0	0	0
	49-54	13-18	---	6.1-7.3	0	0	0	0
	54-70	11-18	---	6.1-7.3	0	0	0	0
Cald	0-7	14-20	---	6.1-7.3	0	0	0	0
	7-13	13-22	---	5.6-7.3	0	0	0	0
	13-17	9.1-22	---	5.6-7.3	0	0	0	0
	17-25	5.6-23	---	6.1-7.3	0	0	0	0
	25-40	16-28	---	6.1-7.8	0	0	0	0
	40-48	16-28	---	6.1-7.8	0	0	0	0
	48-60	16-27	---	6.1-7.8	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9610:								
Schumacher	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-8	14-21	---	6.6-7.8	0	0	0	0
	8-20	15-22	---	6.1-7.8	0	0	0	0
	20-27	17-22	---	6.1-7.8	0	0	0	0
	27-34	17-24	---	6.1-7.8	0	0	0	0
	34-41	20-24	---	6.1-7.8	0	0	0	0
	41-47	19-24	---	6.1-7.8	0	0	0	0
	47-57	---	---	---	---	---	---	---
Tekoa	0-7	9.3-18	---	6.1-7.3	0	0	0	0
	7-13	11-19	---	6.1-7.3	0	0	0	0
	13-17	13-21	---	6.1-7.3	0	0	0	0
	17-27	17-25	---	6.1-7.3	0	0	0	0
	27-33	20-28	---	6.1-7.3	0	0	0	0
	33-60	---	---	---	---	---	---	---
Libertybutte	0-4	9.1-18	---	6.1-7.3	0	0	0	0
	4-11	13-22	---	6.1-7.3	0	0	0	0
	11-16	13-21	---	6.1-7.3	0	0	0	0
	16-19	---	---	---	---	---	---	---
	19-60	---	---	---	---	---	---	---
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-60	---	---	---	---	---	---	---
Larkin	0-6	13-22	---	5.6-6.5	0	0	0	0
	6-14	13-21	---	5.6-6.5	0	0	0	0
	14-22	15-24	---	6.1-7.3	0	0	0	0
	22-39	17-23	---	6.1-7.3	0	0	0	0
	39-60	19-27	---	6.1-7.3	0	0	0	0
9611:								
Schumacher	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-8	14-21	---	6.6-7.8	0	0	0	0
	8-20	15-22	---	6.1-7.8	0	0	0	0
	20-27	17-22	---	6.1-7.8	0	0	0	0
	27-34	17-24	---	6.1-7.8	0	0	0	0
	34-41	20-24	---	6.1-7.8	0	0	0	0
	41-47	19-24	---	6.1-7.8	0	0	0	0
	47-57	---	---	---	---	---	---	---
Tekoa	0-7	9.3-18	---	6.1-7.3	0	0	0	0
	7-13	11-19	---	6.1-7.3	0	0	0	0
	13-17	13-21	---	6.1-7.3	0	0	0	0
	17-27	17-25	---	6.1-7.3	0	0	0	0
	27-33	20-28	---	6.1-7.3	0	0	0	0
	33-43	---	---	---	---	---	---	---
Libertybutte	0-4	9.1-18	---	6.1-7.3	0	0	0	0
	4-11	13-22	---	6.1-7.3	0	0	0	0
	11-16	13-21	---	6.1-7.3	0	0	0	0
	16-19	---	---	---	---	---	---	---
	19-29	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9611:								
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
Arson, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
9612:								
Libertybutte	0-4	9.1-18	---	6.1-7.3	0	0	0	0
	4-11	13-22	---	6.1-7.3	0	0	0	0
	11-16	13-21	---	6.1-7.3	0	0	0	0
	16-19	---	---	---	---	---	---	---
	19-29	---	---	---	---	---	---	---
Tekoa	0-7	9.3-18	---	6.1-7.3	0	0	0	0
	7-13	11-19	---	6.1-7.3	0	0	0	0
	13-17	13-21	---	6.1-7.3	0	0	0	0
	17-27	17-25	---	6.1-7.3	0	0	0	0
	27-33	20-28	---	6.1-7.3	0	0	0	0
	33-43	---	---	---	---	---	---	---
Schumacher	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-8	14-21	---	6.6-7.8	0	0	0	0
	8-20	15-22	---	6.1-7.8	0	0	0	0
	20-27	17-22	---	6.1-7.8	0	0	0	0
	27-34	17-24	---	6.1-7.8	0	0	0	0
	34-41	20-24	---	6.1-7.8	0	0	0	0
	41-47	19-24	---	6.1-7.8	0	0	0	0
	47-57	---	---	---	---	---	---	---
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9613:								
Ardenvoir, dry-------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Lotuspoint----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Arson, dry----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
Cassyhill----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
McCrosket----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
9614:								
Ardenvoir, dry-------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Lotuspoint----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9614:								
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Pinecreek	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-12	20-30	---	6.1-7.3	0	0	0	0
	12-19	10-25	---	6.1-7.3	0	0	0	0
	19-24	10-25	---	6.1-7.3	0	0	0	0
	24-30	1.0-5.0	---	5.6-6.5	0	0	0	0
	30-70	1.0-5.0	---	5.1-6.5	0	0	0	0
9617:								
Tekoa	0-7	9.3-18	---	6.1-7.3	0	0	0	0
	7-13	11-19	---	6.1-7.3	0	0	0	0
	13-17	13-21	---	6.1-7.3	0	0	0	0
	17-27	17-25	---	6.1-7.3	0	0	0	0
	27-33	20-28	---	6.1-7.3	0	0	0	0
	33-43	---	---	---	---	---	---	---
Schumacher	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-8	14-21	---	6.6-7.8	0	0	0	0
	8-20	15-22	---	6.1-7.8	0	0	0	0
	20-27	17-22	---	6.1-7.8	0	0	0	0
	27-34	17-24	---	6.1-7.8	0	0	0	0
	34-41	20-24	---	6.1-7.8	0	0	0	0
	41-47	19-24	---	6.1-7.8	0	0	0	0
	47-57	---	---	---	---	---	---	---
Libertybutte	0-4	9.1-18	---	6.1-7.3	0	0	0	0
	4-11	13-22	---	6.1-7.3	0	0	0	0
	11-16	13-21	---	6.1-7.3	0	0	0	0
	16-19	---	---	---	---	---	---	---
	19-29	---	---	---	---	---	---	---
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
Arson, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9701:								
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Ardenvoir, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Huckle, dry	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-8	10-20	---	6.1-7.3	0	0	0	0
	8-19	10-20	---	6.1-7.3	0	0	0	0
	19-28	3.0-10	---	5.6-7.3	0	0	0	0
	28-38	1.0-5.0	---	5.6-6.5	0	0	0	0
	38-47	1.0-5.0	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
9703:								
Ardenvoir, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9703:								
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-60	---	---	---	---	---	---	---
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-60	---	---	---	---	---	---	---
Huckle, dry	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-8	10-20	---	6.1-7.3	0	0	0	0
	8-19	10-20	---	6.1-7.3	0	0	0	0
	19-28	3.0-10	---	5.6-7.3	0	0	0	0
	28-38	1.0-5.0	---	5.6-6.5	0	0	0	0
	38-47	1.0-5.0	---	5.6-6.5	0	0	0	0
	47-60	---	---	---	---	---	---	---
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-60	---	---	---	---	---	---	---
9704:								
Ardenvoir, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9704:								
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-60	---	---	---	---	---	---	---
Arson, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-60	---	---	---	---	---	---	---
9706:								
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---
Ardenvoir, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Huckle	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-8	10-20	---	6.1-7.3	0	0	0	0
	8-19	10-20	---	6.1-7.3	0	0	0	0
	19-28	3.0-10	---	5.6-7.3	0	0	0	0
	28-38	1.0-5.0	---	5.6-6.5	0	0	0	0
	38-47	1.0-5.0	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9706:								
McCrosket----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Saint Maries, dry----	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	11-27	---	6.1-7.3	0	0	0	0
	5-9	8.4-19	---	6.1-7.3	0	0	0	0
	9-17	4.9-11	---	6.1-7.3	0	0	0	0
	17-24	4.3-10	---	6.1-7.3	0	0	0	0
	24-32	3.4-9.5	---	6.1-7.3	0	0	0	0
	32-50	2.9-7.7	---	5.1-6.5	0	0	0	0
	50-60	2.9-7.7	---	5.1-6.5	0	0	0	0
9707:								
Huckle, dry----------	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-8	10-20	---	6.1-7.3	0	0	0	0
	8-19	10-20	---	6.1-7.3	0	0	0	0
	19-28	3.0-10	---	5.6-7.3	0	0	0	0
	28-38	1.0-5.0	---	5.6-6.5	0	0	0	0
	38-47	1.0-5.0	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Ardenvoir----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---
Ahrs----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-14	15-25	---	6.1-7.3	0	0	0	0
	14-23	10-20	---	6.1-7.3	0	0	0	0
	23-30	1.0-5.0	---	5.6-6.5	0	0	0	0
	30-41	1.0-5.0	---	5.1-6.5	0	0	0	0
	41-51	1.0-5.0	---	5.1-6.5	0	0	0	0
	51-60	1.0-5.0	---	5.1-6.5	0	0	0	0
Saint Maries, dry----	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	11-27	---	6.1-7.3	0	0	0	0
	5-9	8.4-19	---	6.1-7.3	0	0	0	0
	9-17	4.9-11	---	6.1-7.3	0	0	0	0
	17-24	4.3-10	---	6.1-7.3	0	0	0	0
	24-32	3.4-9.5	---	6.1-7.3	0	0	0	0
	32-50	2.9-7.7	---	5.1-6.5	0	0	0	0
	50-60	2.9-7.7	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9707:								
Rasser	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	11-21	---	5.1-6.5	0	0	0	0
	4-11	7.7-18	---	5.1-6.5	0	0	0	0
	11-20	8.6-16	---	5.1-6.5	0	0	0	0
	20-41	9.6-18	---	5.1-6.5	0	0	0	0
	41-60	9.5-17	---	5.1-6.5	0	0	0	0
Honeyjones, warm	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	20-30	---	6.1-7.3	0	0	0	0
	3-7	15-25	---	6.1-7.3	0	0	0	0
	7-19	10-20	---	6.1-7.3	0	0	0	0
	19-24	1.0-7.0	---	5.6-7.3	0	0	0	0
	24-35	1.0-7.0	---	5.6-7.3	0	0	0	0
	35-47	1.0-5.0	---	5.6-7.3	0	0	0	0
	47-60	1.0-5.0	---	5.6-7.3	0	0	0	0
9710:								
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---
Ardenvoir, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9710:								
Arson	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
Tekoa	0-7	9.3-18	---	6.1-7.3	0	0	0	0
	7-13	11-19	---	6.1-7.3	0	0	0	0
	13-17	13-21	---	6.1-7.3	0	0	0	0
	17-27	17-25	---	6.1-7.3	0	0	0	0
	27-33	20-28	---	6.1-7.3	0	0	0	0
	33-43	---	---	---	---	---	---	---
9711:								
McCrosket	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Arson	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9711:								
Huckle, dry----------	0-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	---	20-30	4.5-5.5	0	0	0	0
	3-4	15-30	---	6.1-7.3	0	0	0	0
	4-8	10-20	---	6.1-7.3	0	0	0	0
	8-19	10-20	---	6.1-7.3	0	0	0	0
	19-28	3.0-10	---	5.6-7.3	0	0	0	0
	28-38	1.0-5.0	---	5.6-6.5	0	0	0	0
	38-47	1.0-5.0	---	5.6-6.5	0	0	0	0
	47-57	---	---	---	---	---	---	---
Tekoa----------	0-7	9.3-18	---	6.1-7.3	0	0	0	0
	7-13	11-19	---	6.1-7.3	0	0	0	0
	13-17	13-21	---	6.1-7.3	0	0	0	0
	17-27	17-25	---	6.1-7.3	0	0	0	0
	27-33	20-28	---	6.1-7.3	0	0	0	0
	33-43	---	---	---	---	---	---	---
9712:								
McCrosket----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-12	11-28	---	6.1-7.3	0	0	0	0
	12-32	8.8-23	---	6.1-7.3	0	0	0	0
	32-42	4.0-14	---	5.6-6.5	0	0	0	0
	42-52	---	---	---	---	---	---	---
Tekoa----------	0-7	9.3-18	---	6.1-7.3	0	0	0	0
	7-13	11-19	---	6.1-7.3	0	0	0	0
	13-17	13-21	---	6.1-7.3	0	0	0	0
	17-27	17-25	---	6.1-7.3	0	0	0	0
	27-33	20-28	---	6.1-7.3	0	0	0	0
	33-43	---	---	---	---	---	---	---
Ardenvoir----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---
Lotuspoint----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Cassyhill----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9712:								
Rasser	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	11-21	---	5.2-6.5	0	0	0	0
	4-11	7.7-18	---	5.2-6.5	0	0	0	0
	11-20	8.6-16	---	5.2-6.5	0	0	0	0
	20-41	9.6-18	---	5.2-6.5	0	0	0	0
	41-60	9.5-17	---	5.2-6.5	0	0	0	0
9735:								
Lotuspoint, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
Pinecreek	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-12	20-30	---	6.1-7.3	0	0	0	0
	12-19	10-25	---	6.1-7.3	0	0	0	0
	19-24	10-25	---	6.1-7.3	0	0	0	0
	24-30	1.0-5.0	---	5.6-6.5	0	0	0	0
	30-70	1.0-5.0	---	5.1-6.5	0	0	0	0
Ardenvoir	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	11-30	---	6.1-7.3	0	0	0	0
	6-11	6.2-18	---	6.1-7.3	0	0	0	0
	11-19	4.3-13	---	6.1-7.3	0	0	0	0
	19-39	2.8-6.9	---	5.6-6.5	0	0	0	0
	39-48	2.8-6.9	---	5.6-6.5	0	0	0	0
	48-58	---	---	---	---	---	---	---
Rasser	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	11-21	---	5.1-6.5	0	0	0	0
	4-11	7.7-18	---	5.1-6.5	0	0	0	0
	11-20	8.6-16	---	5.1-6.5	0	0	0	0
	20-41	9.6-18	---	5.1-6.5	0	0	0	0
	41-60	9.5-17	---	5.1-6.5	0	0	0	0
Rock outcrop	0-60	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9770:								
Pinecreek	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-12	20-30	---	6.1-7.3	0	0	0	0
	12-19	10-25	---	6.1-7.3	0	0	0	0
	19-24	10-25	---	6.1-7.3	0	0	0	0
	24-30	1.7-6.6	---	5.6-6.5	0	0	0	0
	30-70	1.2-5.7	---	5.1-6.5	0	0	0	0
Ahrs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-14	15-25	---	6.1-7.3	0	0	0	0
	14-23	10-20	---	6.1-7.3	0	0	0	0
	23-30	3.0-8.2	---	5.6-6.5	0	0	0	0
	30-41	2.1-6.8	---	5.1-6.5	0	0	0	0
	41-51	2.1-6.0	---	5.1-6.5	0	0	0	0
	51-59	1.8-5.5	---	5.1-6.5	0	0	0	0
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	3.0-8.7	---	5.6-6.5	0	0	0	0
	16-26	2.3-7.7	---	5.6-6.5	0	0	0	0
	26-59	---	---	---	---	---	---	---
Rasser	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	11-21	---	5.1-6.5	0	0	0	0
	4-11	7.7-18	---	5.1-6.5	0	0	0	0
	11-20	8.6-16	---	5.1-6.5	0	0	0	0
	20-41	9.6-18	---	5.1-6.5	0	0	0	0
	41-59	9.5-17	---	5.1-6.5	0	0	0	0
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-59	---	---	---	---	---	---	---
Rock outcrop	0-59	---	---	---	---	---	---	---
9775:								
Pinecreek, moist	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-12	20-30	---	6.1-7.3	0	0	0	0
	12-19	10-25	---	6.1-7.3	0	0	0	0
	19-24	10-25	---	6.1-7.3	0	0	0	0
	24-30	1.7-6.6	---	5.6-6.5	0	0	0	0
	30-70	1.2-5.7	---	5.1-6.5	0	0	0	0

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9775:								
Ahrs	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-14	15-25	---	6.1-7.3	0	0	0	0
	14-23	10-20	---	6.1-7.3	0	0	0	0
	23-30	3.0-8.2	---	5.6-6.5	0	0	0	0
	30-41	2.1-6.8	---	5.1-6.5	0	0	0	0
	41-51	2.1-6.0	---	5.1-6.5	0	0	0	0
	51-59	1.8-5.5	---	5.1-6.5	0	0	0	0
Lotuspoint	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	3.0-8.7	---	5.6-6.5	0	0	0	0
	16-26	2.3-7.7	---	5.6-6.5	0	0	0	0
	26-59	---	---	---	---	---	---	---
Rasser	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	11-21	---	5.1-6.5	0	0	0	0
	4-11	7.7-18	---	5.1-6.5	0	0	0	0
	11-20	8.6-16	---	5.1-6.5	0	0	0	0
	20-41	9.6-18	---	5.1-6.5	0	0	0	0
	41-59	9.5-17	---	5.1-6.5	0	0	0	0
Honeyjones, warm	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	20-30	---	6.1-7.3	0	0	0	0
	3-7	15-25	---	6.1-7.3	0	0	0	0
	7-19	10-20	---	6.1-7.3	0	0	0	0
	19-24	3.0-10	---	5.6-7.3	0	0	0	0
	24-35	2.3-7.6	---	5.6-7.3	0	0	0	0
	35-47	2.3-7.0	---	5.6-7.3	0	0	0	0
	47-59	2.0-6.1	---	5.6-7.3	0	0	0	0
Rock outcrop	0-59	---	---	---	---	---	---	---
9776:								
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
Lotuspoint, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9776:								
Ardenvoir, dry-------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Rock outcrop---------	0-60	---	---	---	---	---	---	---
9778:								
Cassyhill-----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
Lotuspoint----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Ardenvoir, dry-------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---
Pinecreek-----------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-6	20-30	---	6.1-7.3	0	0	0	0
	6-12	20-30	---	6.1-7.3	0	0	0	0
	12-19	10-25	---	6.1-7.3	0	0	0	0
	19-24	10-25	---	6.1-7.3	0	0	0	0
	24-30	1.0-5.0	---	5.6-6.5	0	0	0	0
	30-70	1.0-5.0	---	5.1-6.5	0	0	0	0
Rock outcrop---------	0-60	---	---	---	---	---	---	---
9782:								
Ardenvoir, dry-------	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-3	11-30	---	6.1-7.3	0	0	0	0
	3-11	8.4-24	---	6.1-7.3	0	0	0	0
	11-18	6.2-18	---	6.1-7.3	0	0	0	0
	18-32	4.0-13	---	5.6-7.3	0	0	0	0
	32-41	---	2.7-5.6	5.1-6.5	0	0	0	0
	41-60	---	2.7-5.6	5.1-6.5	0	0	0	0
	60-70	---	---	---	---	---	---	---

Table 14.--Chemical Soil Properties--Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	*meq/100 g*	*meq/100 g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
9782:								
Cassyhill	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-7	11-24	---	6.1-7.3	0	0	0	0
	7-11	7.9-18	---	5.6-6.5	0	0	0	0
	11-14	4.2-14	---	5.1-6.0	0	0	0	0
	14-24	---	---	---	---	---	---	---
Lotuspoint, stony surface	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-4	20-30	---	6.1-7.3	0	0	0	0
	4-10	15-25	---	5.6-7.3	0	0	0	0
	10-16	1.0-5.0	---	5.6-6.5	0	0	0	0
	16-26	1.0-5.0	---	5.6-6.5	0	0	0	0
	26-36	---	---	---	---	---	---	---
Arson, dry	0-1	---	20-30	4.5-5.5	0	0	0	0
	1-2	---	20-30	4.5-5.5	0	0	0	0
	2-5	9.3-16	---	5.6-6.5	0	0	0	0
	5-9	11-18	---	5.6-6.5	0	0	0	0
	9-15	14-19	---	5.6-6.0	0	0	0	0
	15-38	14-21	---	5.1-6.0	0	0	0	0
	38-43	14-21	---	5.1-6.0	0	0	0	0
	43-57	---	8.3-13	5.1-6.0	0	0	0	0
	57-67	---	---	---	---	---	---	---
Rock outcrop	0-60	---	---	---	---	---	---	---
W:								
Water	---	---	---	---	---	---	---	---

Table 15.--Water Features

(Depths of layers are in inches. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated. In the "Water table" column, more than one value for a month for the upper and lower limits indicates that the soil has both a perched and an apparent water table.)

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1001:									
Bridgeson	C/D								
		January	20-28	>72	---	---	None	Long (7 to 30 days)	Occasional
		February	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		March	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		April	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		May	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		June	32-44	>72	---	---	None	---	---
		July	40-48	>72	---	---	None	---	---
		August	40-48	>72	---	---	None	---	---
		September	40-48	>72	---	---	None	---	---
		October	32-40	>72	---	---	None	---	---
		November	28-36	>72	---	---	None	---	---
		December	20-32	>72	---	---	None	Long (7 to 30 days)	Occasional
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1001:									
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None
Pywell	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	20-25	>72	---	---	---	---	None
		August	20-30	>72	---	---	---	---	None
		September	20-30	>72	---	---	---	---	None
		October	20-30	>72	---	---	---	---	None
		November	20-25	>72	---	---	---	---	None
		December	6-14	>72	0-12	Long (7 to 30 days)	Frequent	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1001:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
1010:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1010:									
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1010:									
Latah	D								
		January	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			31-38	>72					
		February	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	31-38	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	38-60	>72	---	---	None	---	---
		September	50-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	45-50	>72	---	---	None	---	---
		December	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			38-50	>72					
Mondovi	B								
		January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1010:									
Endoaquolls	B/D								
		January	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	15-20	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	20-30	>72	---	---	None	---	---
		August	30-40	>72	---	---	None	---	---
		September	40-60	>72	---	---	None	---	---
		October	40-60	>72	---	---	None	---	---
		November	20-36	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
1015:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1015:									
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent
Endoaquolls	B/D								
		January	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	15-20	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	20-30	>72	---	---	None	---	---
		August	30-40	>72	---	---	None	---	---
		September	40-60	>72	---	---	None	---	---
		October	40-60	>72	---	---	None	---	---
		November	20-36	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1015:									
Mondovi	B								
		January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1020:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1020:									
Saltese	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	6-16	>72	---	---	---	---	None
		July	16-24	>72	---	---	---	---	None
		August	16-24	>72	---	---	---	---	None
		September	16-24	>72	---	---	---	---	None
		October	16-24	>72	---	---	---	---	None
		November	12-16	>72	---	---	---	---	None
		December	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
Water	---								
		---	---	---	---	---	---	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1021:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1021:									
Saltese	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	6-16	>72	---	---	---	---	None
		July	16-24	>72	---	---	---	---	None
		August	16-24	>72	---	---	---	---	None
		September	16-24	>72	---	---	---	---	None
		October	16-24	>72	---	---	---	---	None
		November	12-16	>72	---	---	---	---	None
		December	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Water	---								
		---	---	---	---	---	---	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1030:									
Emdent	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	9-13	>72	---	---	---	---	---
		June	21-28	>72	---	---	---	---	---
		July	28-72	>72	---	---	---	---	---
		August	28-72	>72	---	---	---	---	---
		September	28-72	>72	---	---	---	---	---
		October	28-72	>72	---	---	---	---	---
		November	28-72	>72	---	---	---	---	---
		December	21-28	>72	---	---	---	---	---
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1030:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1030:									
Saltese	B/D								
		January	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	12-16	>72	---	---	---	---	None
		July	16-24	>72	---	---	---	---	None
		August	24-40	>72	---	---	---	---	None
		September	40-60	>72	---	---	---	---	None
		October	40-60	>72	---	---	---	---	None
		November	30-40	>72	---	---	---	---	None
		December	20-30	>72	---	---	---	---	None
1040:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1040:									
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Peone	B/D								
		January	30-49	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	30-42	>72	---	---	None	---	---
		July	30-42	>72	---	---	None	---	---
		August	42-60	>72	---	---	None	---	---
		September	42-60	>72	---	---	None	---	---
		October	42-60	>72	---	---	None	---	---
		November	30-49	>72	---	---	None	---	---
		December	30-49	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1040:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1050:									
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1050:									
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Pywell	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	20-25	>72	---	---	---	---	None
		August	20-30	>72	---	---	---	---	None
		September	20-30	>72	---	---	---	---	None
		October	20-30	>72	---	---	---	---	None
		November	20-25	>72	---	---	---	---	None
		December	6-14	>72	0-12	Long (7 to 30 days)	Frequent	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1070:									
Mondovi	B								
		January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1070:									
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Endoaquolls	B/D								
		January	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	15-20	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	20-30	>72	---	---	None	---	---
		August	30-40	>72	---	---	None	---	---
		September	40-60	>72	---	---	None	---	---
		October	40-60	>72	---	---	None	---	---
		November	20-36	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1080:									
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1080:									
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
1081:									
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1081:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1090:									
Peone	B/D								
		January	30-49	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	30-42	>72	---	---	None	---	---
		July	30-42	>72	---	---	None	---	---
		August	42-60	>72	---	---	None	---	---
		September	42-60	>72	---	---	None	---	---
		October	42-60	>72	---	---	None	---	---
		November	30-49	>72	---	---	None	---	---
		December	30-49	>72	---	---	None	---	---
Saltese	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	6-12	>72	---	---	---	---	None
		August	12-16	>72	---	---	---	---	None
		September	16-24	>72	---	---	---	---	None
		October	16-24	>72	---	---	---	---	None
		November	12-16	>72	---	---	---	---	None
		December	6-12	>72	---	---	---	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1090:									
Endoaquolls	B/D								
		January	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	15-20	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	20-30	>72	---	---	None	---	---
		August	30-40	>72	---	---	None	---	---
		September	40-60	>72	---	---	None	---	---
		October	40-60	>72	---	---	None	---	---
		November	20-36	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1090:									
Peone, drained	C								
		January	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	42-72	>72	---	---	None	---	---
		July	42-72	>72	---	---	None	---	---
		August	42-72	>72	---	---	None	---	---
		September	42-72	>72	---	---	None	---	---
		October	42-72	>72	---	---	None	---	---
		November	42-72	>72	---	---	None	---	---
		December	30-42	>72	---	---	None	---	---
Water	---								
		---	---	---	---	---	---	---	---
1091:									
Peone, drained	C								
		January	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	42-72	>72	---	---	None	---	---
		July	42-72	>72	---	---	None	---	---
		August	42-72	>72	---	---	None	---	---
		September	42-72	>72	---	---	None	---	---
		October	42-72	>72	---	---	None	---	---
		November	42-72	>72	---	---	None	---	---
		December	30-42	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1091:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
Cedonia	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1091:									
Endoaquolls	B/D								
		January	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-10	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	15-20	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	20-30	>72	---	---	None	---	---
		August	30-40	>72	---	---	None	---	---
		September	40-60	>72	---	---	None	---	---
		October	40-60	>72	---	---	None	---	---
		November	20-36	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
1092:									
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1092:									
Bellslake	B/D								
		January	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	20-30	>72	---	---	---	---	None
		August	20-30	>72	---	---	---	---	None
		September	20-30	>72	---	---	---	---	None
		October	20-30	>72	---	---	---	---	None
		November	20-30	>72	---	---	---	---	None
		December	20-25	>72	---	---	---	---	None
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1092:									
Pywell	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	20-25	>72	---	---	---	---	None
		August	20-30	>72	---	---	---	---	None
		September	20-30	>72	---	---	---	---	None
		October	20-30	>72	---	---	---	---	None
		November	20-25	>72	---	---	---	---	None
		December	6-14	>72	0-12	Long (7 to 30 days)	Frequent	---	None
Water	---								
		---	---	---	---	---	---	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1120:									
Lovell	C/D								
		January	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		February	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		March	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		April	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		May	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Santa	C/D								
		February	16-25	20-40	---	---	None	---	None
		March	16-25	20-40	---	---	None	---	None
		April	19-25	20-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1120:									
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
1130:									
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1130:									
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1200:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
Fluvaquents	A/D								
		January	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	4-12	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	4-12	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	12-21	>72	---	---	None	---	---
		August	21-31	>72	---	---	None	---	---
		September	31-40	>72	---	---	None	---	---
		October	40-72	>72	---	---	None	---	---
		November	24-36	>72	---	---	None	---	---
		December	10-16	>72	---	---	None	Long (7 to 30 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1200:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Saltese	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	6-12	>72	---	---	---	---	None
		August	12-16	>72	---	---	---	---	None
		September	16-24	>72	---	---	---	---	None
		October	16-24	>72	---	---	---	---	None
		November	12-16	>72	---	---	---	---	None
		December	6-12	>72	---	---	---	---	None
Water	---								
		---	---	---	---	---	---	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1203:									
Haploxerolls, channeled	B								
		January	40-60	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	40-50	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	40-50	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	40-50	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	40-50	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	50-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	50-60	>72	---	---	None	Brief (2 to 7 days)	Occasional
		December	40-60	>72	---	---	None	Brief (2 to 7 days)	Occasional
Mondovi	B								
		January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1203:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1203:									
Riverwash	---								
		January	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		February	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		March	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		April	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		May	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		June	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		July	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		August	0-24	>72	---	---	None	---	None
		September	0-24	>72	---	---	None	---	None
		October	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		November	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		December	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
Water	---	---	---	---	---	---	---	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1300:									
Aquepts, frigid	B/D								
		January	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	27-40	>72	---	---	None	---	---
		July	40-50	>72	---	---	None	---	---
		August	50-72	>72	---	---	None	---	---
		September	50-72	>72	---	---	None	---	---
		October	50-72	>72	---	---	None	---	---
		November	40-50	>72	---	---	None	---	---
		December	27-40	>72	---	---	None	Brief (2 to 7 days)	Frequent
Lovell	C/D								
		January	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		February	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		March	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		April	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		May	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1300:									
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
1300:									
Pywell	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	20-25	>72	---	---	---	---	None
		August	20-30	>72	---	---	---	---	None
		September	20-30	>72	---	---	---	---	None
		October	20-30	>72	---	---	---	---	None
		November	20-25	>72	---	---	---	---	None
		December	6-14	>72	0-12	Long (7 to 30 days)	Frequent	---	None
Water	---								
		---	---	---	---	---	---	---	---
2040:									
Klickson, mass wasted	C								
		Jan-Dec	---	---	---	---	None	---	None
Blinn, stony surface	C								
		Jan-Dec	---	---	---	---	None	---	None
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2040:									
Xerolls, frigid, mass wasted	C	Jan-Dec	---	---	---	---	None	---	None
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
Speigle	B	Jan-Dec	---	---	---	---	None	---	None
2041:									
Klickson	C	Jan-Dec	---	---	---	---	None	---	None
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
Blinn, stony surface	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Xerolls, frigid, mass wasted	C	Jan-Dec	---	---	---	---	None	---	None
2042:									
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Klickson	C	Jan-Dec	---	---	---	---	None	---	None
Speigle	B	Jan-Dec	---	---	---	---	None	---	None
Rubble land	---	Jan-Dec	---	---	---	---	None	---	None
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
2043:									
Klickson, mass wasted	C	Jan-Dec	---	---	---	---	None	---	None
Speigle, mass wasted	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2043:									
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Klickson	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Xerolls, frigid, mass wasted	C								
		Jan-Dec	---	---	---	---	None	---	None
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Lacy	D								
		Jan-Dec	---	---	---	---	None	---	None
2044:									
Klickson	C								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Lacy	D								
		Jan-Dec	---	---	---	---	None	---	None
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Rubble land	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2045:									
Marble, mass wasted	A								
		Jan-Dec	---	---	---	---	None	---	None
Speigle, mass wasted	B								
		Jan-Dec	---	---	---	---	None	---	None
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Klickson, mass wasted	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
2046:									
Klickson	C								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Lacy	D								
		Jan-Dec	---	---	---	---	None	---	None
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Rubble land	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2050:									
Speigle	B	Jan-Dec	---	---	---	---	None	---	None
Spens	A	Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C	Jan-Dec	---	---	---	---	None	---	None
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
2051:									
Speigle	B	Jan-Dec	---	---	---	---	None	---	None
Spens	A	Jan-Dec	---	---	---	---	None	---	None
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C	Jan-Dec	---	---	---	---	None	---	None
Rubble land	---	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
2052:									
Brincken, moist, mass wasted	B	Jan-Dec	---	---	---	---	None	---	None
Speigle, mass wasted	B	Jan-Dec	---	---	---	---	None	---	None
Gibbs	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2052:									
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Klickson, mass wasted	C								
		Jan-Dec	---	---	---	---	None	---	None
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
2053:									
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2053:									
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
Rubble land	---	Jan-Dec	---	---	---	---	None	---	None
Spens	A	Jan-Dec	---	---	---	---	None	---	None
2054:									
Speigle	B	Jan-Dec	---	---	---	---	None	---	None
Rubble land	---	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Klickson	C	Jan-Dec	---	---	---	---	None	---	None
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
Spens	A	Jan-Dec	---	---	---	---	None	---	None
2070:									
Bobbitt	C	Jan-Dec	---	---	---	---	None	---	None
Lacy	D	Jan-Dec	---	---	---	---	None	---	None
Gibbs	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2070:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Stutler	B								
		Jan-Dec	---	---	---	---	None	---	None
2071:									
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Gibbs	C								
		Jan-Dec	---	---	---	---	None	---	None
Lacy	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
2080:									
Gibbs	C								
		Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2080:									
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Lacy	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
2081:									
Gibbs	C								
		Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2081:									
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Lacy	D								
		Jan-Dec	---	---	---	---	None	---	None
2085:									
Tucannon	C								
		Jan-Dec	---	---	---	---	None	---	None
Cheney	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2085:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
2090:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Tucannon	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
2090:									
Rubble land	---	Jan-Dec	---	---	---	---	None	---	None
Speigle	B	Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B	Jan-Dec	---	---	---	---	None	---	None
2160:									
Scoap	B	Jan-Dec	---	---	---	---	None	---	None
Rubble land	---	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Northstar	C	Jan-Dec	---	---	---	---	None	---	None
Springdale	A	Jan-Dec	---	---	---	---	None	---	None
Wapal	A	Jan-Dec	---	---	---	---	None	---	None
3010:									
Alecanyon, very stony surface	A	Jan-Dec	---	---	---	---	None	---	None
Cheney	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
3015:									
Seaboldt, dry	C	Jan-Dec	---	---	---	---	None	---	None
Cheney	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3015:									
Uhlig, dry	B	Jan-Dec	---	---	---	---	None	---	None
Brincken, moist	B	Jan-Dec	---	---	---	---	None	---	None
Narcisse	C	January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
3020:									
Bong	A	Jan-Dec	---	---	---	---	None	---	None
Marble	A	Jan-Dec	---	---	---	---	None	---	None
Phoebe, dry	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3020:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
3022:									
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3024:									
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3024:									
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3025:									
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3026:									
Phoebe, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3026:									
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3030:									
Bonner	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Stien, very stony surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Wapal	A								
		Jan-Dec	---	---	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3031:									
Bonner	A	Jan-Dec	---	---	---	---	None	---	None
Wapal	A	Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A	Jan-Dec	---	---	---	---	None	---	None
Stien, very stony surface	B	Jan-Dec	---	---	---	---	None	---	None
Eloika	B	Jan-Dec	---	---	---	---	None	---	None
3039:									
Alecanyon	A	Jan-Dec	---	---	---	---	None	---	None
Rockly	D	Jan-Dec	---	---	---	---	None	---	None
Cheney	B	Jan-Dec	---	---	---	---	None	---	None
Deno	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Fourmound	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3039:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
3040:									
Cheney	B								
		Jan-Dec	---	---	---	---	None	---	None
Alecanyon	A								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3041:									
Alecanyon, very stony surface	A	Jan-Dec	---	---	---	---	None	---	None
Cheney	B	Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B	Jan-Dec	---	---	---	---	None	---	None
Rockly	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
3042:									
Alecanyon, very stony surface	A	Jan-Dec	---	---	---	---	None	---	None
Cheney	B	Jan-Dec	---	---	---	---	None	---	None
Athena	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Tucannon	C	Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B	Jan-Dec	---	---	---	---	None	---	None
3044:									
Cheney	B	Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B	Jan-Dec	---	---	---	---	None	---	None
Alecanyon	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3044:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Seaboldt, dry	C								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig	B								
		Jan-Dec	---	---	---	---	None	---	None
3045:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Deno	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3045:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Cheney	B								
		Jan-Dec	---	---	---	---	None	---	None
Seaboldt, dry	C								
		Jan-Dec	---	---	---	---	None	---	None
3046:									
Cheney	B								
		Jan-Dec	---	---	---	---	None	---	None
Seaboldt, dry	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3046:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
3047:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Deno	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3047:									
Rock outcrop, cliffs	---								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3048:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3048:									
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Water	---								
		---	---	---	---	---	---	---	---
3049:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rock outcrop, cliffs	---								
		Jan-Dec	---	---	---	---	None	---	None
Deno	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3049:									
Northstar	C	Jan-Dec	---	---	---	---	None	---	None
Speigle	B	Jan-Dec	---	---	---	---	None	---	None
Water	---	---	---	---	---	---	---	---	---
3054:									
Clayton	B	Jan-Dec	---	---	---	---	None	---	None
Clayton, silty subsoil	B	Jan-Dec	---	---	---	---	None	---	None
Hagen	A	Jan-Dec	---	---	---	---	None	---	None
Phoebe, dry	A	Jan-Dec	---	---	---	---	None	---	None
Marblespring	A	Jan-Dec	---	---	---	---	None	---	None
3055:									
Clayton	B	Jan-Dec	---	---	---	---	None	---	None
Hagen	A	Jan-Dec	---	---	---	---	None	---	None
Clayton, silty subsoil	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3055:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
3056:									
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Clayton	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3056:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
3057:									
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
3060:									
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3060:									
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Skalan	C								
		Jan-Dec	---	---	---	---	None	---	None
3061:									
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Skalan	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3061:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
3062:									
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
Skalan	C								
		Jan-Dec	---	---	---	---	None	---	None
Spokane	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3070:									
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Stien, very stony surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
3071:									
Stien, very stony surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Wapal	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3071:									
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
3072:									
Stien, very stony surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Wapal	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Blackprince	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3073:									
Stien, very stony surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Blackprince	B								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Wapal	A								
		Jan-Dec	---	---	---	---	None	---	None
3074:									
Eloika, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Bonner	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3074:									
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None
3080:									
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3081:									
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
3082:									
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3083:									
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
3084:									
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Garrison, extremely stony surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
3085:									
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3085:									
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
Urban land	---								
		---	---	---	---	---	---	---	---
3087:									
Garrison, extremely stony surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
Urban land	---								
		Jan-Dec	---	---	---	---	None	---	None
3090:									
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3090:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
3091:									
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Glenrose, cobbly surface	C								
		Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Spokane	C								

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3101:									
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Blinn	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---
3102:									
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3102:									
Klickson	C								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
3110:									
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Stutler	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3110:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Seaboldt, warm	C								
		Jan-Dec	---	---	---	---	None	---	None
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3112:									
Stutler, extremely bouldery surface	B								
		Jan-Dec	---	---	---	---	None	---	None
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3113:									
Stutler	B								
		Jan-Dec	---	---	---	---	None	---	None
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
3114:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3114:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Water	---								
		---	---	---	---	---	---	---	---
3115:									
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3115:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Rubble land	---								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Stutler	B								
		Jan-Dec	---	---	---	---	None	---	None
Klickson	C								
		Jan-Dec	---	---	---	---	None	---	None
3116:									
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3116:									
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
3117:									
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3117:									
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Rubble land	---								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3118:									
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Water	---								
		---	---	---	---	---	---	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3120:									
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
3121:									
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3122:									
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None
Elmira	A								
		Jan-Dec	---	---	---	---	None	---	None
3123:									
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Spens, cool	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3123:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3126:									
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Rockly	D								
		Jan-Dec	---	---	---	---	None	---	None
Rubble land	---								
		Jan-Dec	---	---	---	---	None	---	None
3127:									
Marblespring	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3127:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
3130:									
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
Clayton	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3131:									
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3131:									
Clayton	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3132:									
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3133:									
Phoebe, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Clayton	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3133:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3134:									
Phoebe, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None
Clayton	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3135:									
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None
Phoebe, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3135:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3140:									
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Springdale, stony surface	A								
		Jan-Dec	---	---	---	---	None	---	None
3141:									
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3141:									
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Garrison	B								
		Jan-Dec	---	---	---	---	None	---	None
Opportunity	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3142:									
Spens	A								
		Jan-Dec	---	---	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Springdale	A								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3143:									
Spens	A	Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A	Jan-Dec	---	---	---	---	None	---	None
Marble	A	Jan-Dec	---	---	---	---	None	---	None
Springdale	A	Jan-Dec	---	---	---	---	None	---	None
Wapal	A	Jan-Dec	---	---	---	---	None	---	None
3144:									
Wapal	A	Jan-Dec	---	---	---	---	None	---	None
Bonner	A	Jan-Dec	---	---	---	---	None	---	None
Kaniksu	A	Jan-Dec	---	---	---	---	None	---	None
3145:									
Wapal	A	Jan-Dec	---	---	---	---	None	---	None
Scoap	B	Jan-Dec	---	---	---	---	None	---	None
Springdale	A	Jan-Dec	---	---	---	---	None	---	None
Elmira	A	Jan-Dec	---	---	---	---	None	---	None
Klickson	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3146:									
Scoap	B	Jan-Dec	---	---	---	---	None	---	None
Wapal	A	Jan-Dec	---	---	---	---	None	---	None
Elmira	A	Jan-Dec	---	---	---	---	None	---	None
Klickson	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Rubble land	---	Jan-Dec	---	---	---	---	None	---	None
3147:									
Spens, cool	A	Jan-Dec	---	---	---	---	None	---	None
Marble	A	Jan-Dec	---	---	---	---	None	---	None
Springdale	A	Jan-Dec	---	---	---	---	None	---	None
Wapal	A	Jan-Dec	---	---	---	---	None	---	None
3148:									
Spens, cool	A	Jan-Dec	---	---	---	---	None	---	None
Elmira	A	Jan-Dec	---	---	---	---	None	---	None
Marble	A	Jan-Dec	---	---	---	---	None	---	None
Spens	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3148:									
Wapal	A								
		Jan-Dec	---	---	---	---	None	---	None
3200:									
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
3201:									
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Blackprince	B								
		Jan-Dec	---	---	---	---	None	---	None
3202:									
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Blackprince	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3202:									
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
3210:									
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3211:									
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
3212:									
Kaniksu, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Seaboldt	C								
		Jan-Dec	---	---	---	---	None	---	None
Stapaloop	A								
		Jan-Dec	---	---	---	---	None	---	None
Elmira	A								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3220:									
Stapaloop	A								
		Jan-Dec	---	---	---	---	None	---	None
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Kaniksu, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None
3221:									
Stapaloop	A								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3222:									
Stapaloop	A								
		Jan-Dec	---	---	---	---	None	---	None
Seaboldt	C								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
3300:									
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3301:									
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Elmira	A								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu	A								
		Jan-Dec	---	---	---	---	None	---	None
3302:									
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Blackprince	B								
		Jan-Dec	---	---	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Eloika, moist	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3303:									
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Torboy	A								
		Jan-Dec	---	---	---	---	None	---	None
Kaniksu, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Eloika	B								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
3401:									
Elmira	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3402:									
Elmira	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Stapaloop	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None
3403:									
Elmira	A								
		Jan-Dec	---	---	---	---	None	---	None
Hagen	A								
		Jan-Dec	---	---	---	---	None	---	None
Scrabblers	A								
		Jan-Dec	---	---	---	---	None	---	None
Colburn	B/D								
		January	20-36	>72	---	---	None	---	None
		February	20-30	>72	---	---	None	---	None
		March	20-30	>72	---	---	None	---	None
		April	20-30	>72	---	---	None	---	None
		May	20-40	>72	---	---	None	---	None
		June	40-52	>72	---	---	None	---	None
		July	48-60	>72	---	---	None	---	None
		November	40-52	>72	---	---	None	---	None
		December	20-40	>72	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3404:									
Elmira	A	Jan-Dec	---	---	---	---	None	---	None
Seaboldt	C	Jan-Dec	---	---	---	---	None	---	None
Kaniksu, dry	A	Jan-Dec	---	---	---	---	None	---	None
Marble	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
3500:									
Uhlig	B	Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A	Jan-Dec	---	---	---	---	None	---	None
Narcisse	C	January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3500:									
Hardesty	B/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
3501:									
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig	B								
		Jan-Dec	---	---	---	---	None	---	None
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Seaboldt	C								
		Jan-Dec	---	---	---	---	None	---	None
Nez Perce	C/D								
		January	18-24	19-26	---	---	None	---	None
		February	18-24	19-26	---	---	None	---	None
		March	14-20	19-26	---	---	None	---	None
		April	10-18	19-26	---	---	None	---	None
		December	18-24	19-26	---	---	None	---	None
3502:									
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3502:									
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
3503:									
Uhlig, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong	A								
		Jan-Dec	---	---	---	---	None	---	None
Cheney	B								
		Jan-Dec	---	---	---	---	None	---	None
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
Deno	B								
		Jan-Dec	---	---	---	---	None	---	None
Seaboldt, dry	C								
		Jan-Dec	---	---	---	---	None	---	None
3504:									
Brincken	B								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3504:									
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Cheney	B								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Tucannon	C								
		Jan-Dec	---	---	---	---	None	---	None
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
3505:									
Seaboldt, warm	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Nez Perce	C/D								
		January	18-24	19-26	---	---	None	---	None
		February	18-24	19-26	---	---	None	---	None
		March	14-20	19-26	---	---	None	---	None
		April	10-18	19-26	---	---	None	---	None
		December	18-24	19-26	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3505:									
Uhlig	B	Jan-Dec	---	---	---	---	None	---	None
Urban land	---	---	---	---	---	---	---	---	---
3600:									
Seaboldt	C	Jan-Dec	---	---	---	---	None	---	None
Uhlig	B	Jan-Dec	---	---	---	---	None	---	None
Rockly	D	Jan-Dec	---	---	---	---	None	---	None
Brincken, moist	B	Jan-Dec	---	---	---	---	None	---	None
Fourmound	B	Jan-Dec	---	---	---	---	None	---	None
Phoebe	A	Jan-Dec	---	---	---	---	None	---	None
Narcisse	C	January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
3601:									
Seaboldt	C								
		Jan-Dec	---	---	---	---	None	---	None
Fourmound	B								
		Jan-Dec	---	---	---	---	None	---	None
Northstar	C								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig	B								
		Jan-Dec	---	---	---	---	None	---	None
Phoebe	A								
		Jan-Dec	---	---	---	---	None	---	None
4000:									
Hunters	C								
		Jan-Dec	---	---	---	---	None	---	None
Cedonia	C								
		Jan-Dec	---	---	---	---	None	---	None
Peone	B/D								
		January	30-49	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	30-42	>72	---	---	None	---	---
		July	30-42	>72	---	---	None	---	---
		August	42-60	>72	---	---	None	---	---
		September	42-60	>72	---	---	None	---	---
		October	42-60	>72	---	---	None	---	---
		November	30-49	>72	---	---	None	---	---
		December	30-49	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4000:									
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
4001:									
Cedonia	C								
		Jan-Dec	---	---	---	---	None	---	None
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Hunters	C								
		Jan-Dec	---	---	---	---	None	---	None
Peone	B/D								
		January	30-49	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	30-42	>72	---	---	None	---	---
		July	30-42	>72	---	---	None	---	---
		August	42-60	>72	---	---	None	---	---
		September	42-60	>72	---	---	None	---	---
		October	42-60	>72	---	---	None	---	---
		November	30-49	>72	---	---	None	---	---
		December	30-49	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4002:									
Cedonia	C								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Peone	B/D								
		January	30-49	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	30-42	>72	---	---	None	---	---
		July	30-42	>72	---	---	None	---	---
		August	42-60	>72	---	---	None	---	---
		September	42-60	>72	---	---	None	---	---
		October	42-60	>72	---	---	None	---	---
		November	30-49	>72	---	---	None	---	---
		December	30-49	>72	---	---	None	---	---
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Hunters	C								
		Jan-Dec	---	---	---	---	None	---	None
4031:									
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4031:									
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Cedonia	C								
		Jan-Dec	---	---	---	---	None	---	None
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
4032:									
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Spokane	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Marble	A								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4032:									
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
4033:									
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Speigle	B								
		Jan-Dec	---	---	---	---	None	---	None
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
4040:									
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4040:									
Stapaloop	A								
		Jan-Dec	---	---	---	---	None	---	None
Bridgeson	C/D								
		January	20-28	>72	---	---	None	Long (7 to 30 days)	Occasional
		February	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		March	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		April	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		May	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		June	32-44	>72	---	---	None	---	---
		July	40-48	>72	---	---	None	---	---
		August	40-48	>72	---	---	None	---	---
		September	40-48	>72	---	---	None	---	---
		October	32-40	>72	---	---	None	---	---
		November	28-36	>72	---	---	None	---	---
		December	20-32	>72	---	---	None	Long (7 to 30 days)	Occasional
4041:									
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4041:									
Bridgeson	C/D								
		January	20-28	>72	---	---	None	Long (7 to 30 days)	Occasional
		February	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		March	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		April	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		May	10-20	>72	---	---	None	Long (7 to 30 days)	Occasional
		June	32-44	>72	---	---	None	---	---
		July	40-48	>72	---	---	None	---	---
		August	40-48	>72	---	---	None	---	---
		September	40-48	>72	---	---	None	---	---
		October	32-40	>72	---	---	None	---	---
		November	28-36	>72	---	---	None	---	---
		December	20-32	>72	---	---	None	Long (7 to 30 days)	Occasional
Stapaloop	A								
		Jan-Dec	---	---	---	---	None	---	None
4050:									
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Klickson	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4050:									
Wolfeson	C/D								
		January	37-48	>72	---	---	None	---	None
		February	21-37	>72	---	---	None	---	None
		March	21-37	>72	---	---	None	---	None
		April	21-37	>72	---	---	None	---	None
		May	37-48	>72	---	---	None	---	None
		June	53-72	>72	---	---	None	---	None
		November	53-72	>72	---	---	None	---	None
		December	48-53	>72	---	---	None	---	None
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
4051:									
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Klickson	C								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Blinn, stony surface	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
4051:									
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
Quinnamose	B								
		Jan-Dec	---	---	---	---	None	---	None
5001:									
Brickel	B								
		Jan-Dec	---	---	---	---	None	---	None
Vaywood	B								
		Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A								
		Jan-Dec	---	---	---	---	None	---	None
Brevco	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
5023:									
Micapeak	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5023:									
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Clayton	B	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
5024:									
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
5025:									
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5025:									
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
5026:									
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Clayton	B	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5027:									
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5027:									
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5037:									
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Spens	A	Jan-Dec	---	---	---	---	None	---	None
5040:									
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5041:									
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5053:									
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Hysing, dry	A	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5060:									
Bouldercreek, moist	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5060:									
Boulderjud	A								
		Jan-Dec	---	---	---	---	None	---	None
Lakestarr	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Nakarna	A								
		Jan-Dec	---	---	---	---	None	---	None
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---
5061:									
Nakarna	A								
		Jan-Dec	---	---	---	---	None	---	None
Nakarna, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5061:									
Lakestarr	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Quinnamose	B								
		Jan-Dec	---	---	---	---	None	---	None
5062:									
Nakarna	A								
		Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Nakarna, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B								
		Jan-Dec	---	---	---	---	None	---	None
5067:									
Quinnamose	B								
		Jan-Dec	---	---	---	---	None	---	None
Micapeak	C								
		Jan-Dec	---	---	---	---	None	---	None
Blackprince	B								
		Jan-Dec	---	---	---	---	None	---	None
Jacot, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5068:									
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
5070:									
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Skalan	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5071:									
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5071:									
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5072:									
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Clayton	B	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Hardesty	B/D	January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5073:									
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
5074:									
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
5080:									
Vaywood	B	Jan-Dec	---	---	---	---	None	---	None
Vay	B	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5080:									
Brickel	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5081:									
Vaywood	B	Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Vay	B	Jan-Dec	---	---	---	---	None	---	None
Brickel	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5090:									
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5091:									
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5091:									
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5092:									
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
5093:									
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5093:									
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5094:									
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5102:									
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5103:									
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5104:									
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5105:									
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5105:									
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5110:									
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5111:									
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Nakarna	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5112:									
Bouldercreek, dry	A	Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5113:									
Bouldercreek, dry	A	Jan-Dec	---	---	---	---	None	---	None
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5114:									
Bouldercreek	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5114:									
Bouldercreek, dry	A	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
5120:									
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
Nakarna	A	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
5121:									
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5121:									
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5122:									
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Brevco	B	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5123:									
Kellerbutte	B	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Blackprince	B	Jan-Dec	---	---	---	---	None	---	None
Ardtoo	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5130:									
Brodeer	C	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
Lakestarr	D	February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
5140:									
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Hysing, dry	A	Jan-Dec	---	---	---	---	None	---	None
Brodeer	C	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
5141:									
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Hysing	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5141:									
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Brodeer	C	Jan-Dec	---	---	---	---	None	---	None
5142:									
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Hysing	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Hysing, dry	A	Jan-Dec	---	---	---	---	None	---	None
5143:									
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Hysing, dry	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
5144:									
Jacot, dry	A	Jan-Dec	---	---	---	---	None	---	None
Hysing, dry	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5144:									
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
Boulderjud, dry	A	Jan-Dec	---	---	---	---	None	---	None
Jacot	A	Jan-Dec	---	---	---	---	None	---	None
5211:									
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
Keeler, dry	C	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
5212:									
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
Keeler	C	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
5213:									
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
Keeler, dry	C	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5213:									
Quinnamose	B	Jan-Dec	---	---	---	---	None	---	None
Boulderjud	A	Jan-Dec	---	---	---	---	None	---	None
5310:									
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Swakane	D	Jan-Dec	---	---	---	---	None	---	None
Clayton	B	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
5313:									
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Skalan	C	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Clayton	B	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5313:									
Kruse	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
5314:									
Spokane	C	Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Lenz	B	Jan-Dec	---	---	---	---	None	---	None
Skalan	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Micapeak	C	Jan-Dec	---	---	---	---	None	---	None
5321:									
Kramerhill	C	Jan-Dec	---	---	---	---	None	---	None
Uhlig	B	Jan-Dec	---	---	---	---	None	---	None
Skalan	C	Jan-Dec	---	---	---	---	None	---	None
Glenrose	C	Jan-Dec	---	---	---	---	None	---	None
Bong, moist	A	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5321:									
Endoaquolls, deep	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
5322:									
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
Skalan	C								
		Jan-Dec	---	---	---	---	None	---	None
Spokane	C								
		Jan-Dec	---	---	---	---	None	---	None
Uhlig	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5322:									
Endoaquolls, deep	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
5412:									
Keeler	C								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Micapeak	C								
		Jan-Dec	---	---	---	---	None	---	None
Santa	C/D								
		February	16-25	20-40	---	---	None	---	None
		March	16-25	20-40	---	---	None	---	None
		April	19-25	20-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5412:									
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
Lakestarr	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
5413:									
Keeler	C								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Bouldercreek, dry	A								
		Jan-Dec	---	---	---	---	None	---	None
Lakestarr	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Micapeak	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5414:									
Keeler	C								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Lakestarr	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Micapeak	C								
		Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A								
		Jan-Dec	---	---	---	---	None	---	None
5512:									
Santa	C/D								
		January	10-24	20-40	---	---	None	---	None
		February	8-22	20-40	---	---	None	---	None
		March	8-22	20-40	---	---	None	---	None
		April	10-26	20-40	---	---	None	---	None
		May	18-39	20-40	---	---	None	---	None
		December	20-39	20-40	---	---	None	---	None
Cavendish	C								
		---	---	---	---	---	---	---	---
Crumarine	C/D								
		January	20-79	>72	---	---	None	---	---
		February	8-79	>72	---	---	None	Brief (2 to 7 days)	Rare
		March	4-45	>72	---	---	None	Brief (2 to 7 days)	Rare
		April	6-26	>72	---	---	None	Brief (2 to 7 days)	Rare
		May	8-41	>72	---	---	None	---	---
		June	35-79	>72	---	---	None	---	---
		July	33-79	>72	---	---	None	---	---
		November	35-79	>72	---	---	None	---	---
		December	18-79	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5512:									
Reggear	C/D								
		January	20-39	20-40	---	---	None	---	None
		February	20-30	20-40	---	---	None	---	None
		March	20-31	20-40	---	---	None	---	None
		April	18-30	20-40	---	---	None	---	None
		May	18-39	20-40	---	---	None	---	None
		June	22-39	20-40	---	---	None	---	None
		July	22-39	20-40	---	---	None	---	None
		November	26-39	20-40	---	---	None	---	None
		December	20-39	20-40	---	---	None	---	None
Santa, dry	C/D								
		January	10-24	20-40	---	---	None	---	None
		February	8-22	20-40	---	---	None	---	None
		March	8-22	20-40	---	---	None	---	None
		April	10-26	20-40	---	---	None	---	None
		May	18-39	20-40	---	---	None	---	None
		December	20-39	20-40	---	---	None	---	None
5513:									
Santa	C/D								
		February	16-25	20-40	---	---	None	---	None
		March	16-25	20-40	---	---	None	---	None
		April	19-25	20-40	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
5602:									
Lakestarr	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Santa	C/D								
		February	16-25	20-40	---	---	None	---	None
		March	16-25	20-40	---	---	None	---	None
		April	19-25	20-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5602:									
Keeler	C								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Lakestarr, dry	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Fluvaquents, frigid	A/D								
		January	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-4	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	4-12	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	4-12	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	12-21	>72	---	---	None	---	---
		August	21-31	>72	---	---	None	---	---
		September	31-40	>72	---	---	None	---	---
		October	40-72	>72	---	---	None	---	---
		November	24-36	>72	---	---	None	---	---
		December	10-16	>72	---	---	None	Long (7 to 30 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5602:									
Lovell	C/D								
		January	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		February	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		March	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		April	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		May	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
5603:									
Lakestarr	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Santa	C/D								
		February	16-25	20-40	---	---	None	---	None
		March	16-25	20-40	---	---	None	---	None
		April	19-25	20-40	---	---	None	---	None
Keeler	C								
		Jan-Dec	---	---	---	---	None	---	None
Kruse	C								
		Jan-Dec	---	---	---	---	None	---	None
Bouldercreek	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
5603:									
Lakestarr, dry	D								
		February	20-30	24-44	---	---	None	---	None
		March	15-20	24-44	---	---	None	---	None
		April	20-40	24-44	---	---	None	---	None
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
6001:									
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Mondovi	B								
		January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6001:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6002:									
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6002:									
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
Mondovi	B								
		January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6003:									
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6003:									
Mondovi	B								
		January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
6004:									
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6010:									
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Carlinton, dry	D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Santa	C/D								
		February	16-25	20-40	---	---	None	---	None
		March	16-25	20-40	---	---	None	---	None
		April	19-25	20-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6010:									
Lovell	C/D								
		January	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		February	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		March	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		April	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		May	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Aquepts, frigid	B/D								
		January	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	4-12	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	27-40	>72	---	---	None	---	---
		July	40-50	>72	---	---	None	---	---
		August	50-72	>72	---	---	None	---	---
		September	50-72	>72	---	---	None	---	---
		October	50-72	>72	---	---	None	---	---
		November	40-50	>72	---	---	None	---	---
		December	27-40	>72	---	---	None	Brief (2 to 7 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6011:									
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Carlinton, dry	D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Lovell	C/D								
		January	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		February	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		March	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		April	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		May	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6011:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
6012:									
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Carlinton, dry	D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Taney	C/D								
		February	16-22	27-40	---	---	None	---	None
		March	20-24	27-40	---	---	None	---	None
		April	24-30	27-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6012:									
Lovell	C/D								
		January	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		February	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		March	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		April	19-24	20-30	---	---	None	Very brief (4 to 48 hours)	Occasional
			30-42	>72					
		May	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	42-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Santa	C/D								
		February	16-25	20-40	---	---	None	---	None
		March	16-25	20-40	---	---	None	---	None
		April	19-25	20-40	---	---	None	---	None
6021:									
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6021:									
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None
6031:									
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None
6040:									
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Southwick	C								
		January	24-32	28-36	---	---	None	---	None
		February	24-32	28-36	---	---	None	---	None
		March	24-32	28-36	---	---	None	---	None
		April	24-32	28-36	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6040:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
6041:									
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Southwick	C								
		January	24-32	28-36	---	---	None	---	None
		February	24-32	28-36	---	---	None	---	None
		March	24-32	28-36	---	---	None	---	None
		April	24-32	28-36	---	---	None	---	None
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6041:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6041:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
6042:									
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Southwick	C								
		January	24-32	28-36	---	---	None	---	None
		February	24-32	28-36	---	---	None	---	None
		March	24-32	28-36	---	---	None	---	None
		April	24-32	28-36	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6042:									
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Gibbs	C								
		Jan-Dec	---	---	---	---	None	---	None
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
6043:									
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6043:									
Southwick	C								
		January	24-32	28-36	---	---	None	---	None
		February	24-32	28-36	---	---	None	---	None
		March	24-32	28-36	---	---	None	---	None
		April	24-32	28-36	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
6045:									
Southwick	C								
		January	24-32	28-36	---	---	None	---	None
		February	24-32	28-36	---	---	None	---	None
		March	24-32	28-36	---	---	None	---	None
		April	24-32	28-36	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6045:									
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Freeman	C/D								
		January	14-21	15-30	---	---	None	---	None
		February	14-21	15-30	---	---	None	---	None
		March	14-21	15-30	---	---	None	---	None
		April	14-21	15-30	---	---	None	---	None
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6050:									
Tilma	C/D								
		January	18-27	20-30	---	---	None	---	None
		February	18-25	20-30	---	---	None	---	None
		March	18-25	20-30	---	---	None	---	None
		April	18-30	20-30	---	---	None	---	None
		December	18-30	20-30	---	---	None	---	None
Latah	D								
		January	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			31-38	>72					
		February	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	31-38	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	38-60	>72	---	---	None	---	---
		September	50-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	45-50	>72	---	---	None	---	---
		December	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			38-50	>72					

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6050:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6050:									
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent
6061:									
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6061:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
6062:									
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6062:									
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6064:									
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6064:									
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent
6067:									
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6067:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6068:									
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Staley	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6072:									
Hanning	B	Jan-Dec	---	---	---	---	None	---	None
Athena	B	Jan-Dec	---	---	---	---	None	---	None
Lance	C	Jan-Dec	---	---	---	---	None	---	None
Reardan	C	Jan-Dec	---	---	---	---	None	---	None
6073:									
Hanning	B	Jan-Dec	---	---	---	---	None	---	None
Lance	C	Jan-Dec	---	---	---	---	None	---	None
Athena	B	Jan-Dec	---	---	---	---	None	---	None
Mondovi	B	January	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	48-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	44-60	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	46-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6073:									
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
6074:									
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
6080:									
Nez Perce	C/D								
		January	18-24	19-26	---	---	None	---	None
		February	18-24	19-26	---	---	None	---	None
		March	14-20	19-26	---	---	None	---	None
		April	10-18	19-26	---	---	None	---	None
		December	18-24	19-26	---	---	None	---	None
Brincken, moist	B								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Uhlig	B								
		Jan-Dec	---	---	---	---	None	---	None
6093:									
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6093:									
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
6094:									
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6094:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
6096:									
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6096:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
6110:									
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6110:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
6111:									
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6111:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Hanning	B								
		Jan-Dec	---	---	---	---	None	---	None
6112:									
Broadax	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Lance	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6112:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
6130:									
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6130:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
6131:									
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None
Naff	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6131:									
Caldwell	B/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6140:									
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Southwick	C								
		January	24-32	28-36	---	---	None	---	None
		February	24-32	28-36	---	---	None	---	None
		March	24-32	28-36	---	---	None	---	None
		April	24-32	28-36	---	---	None	---	None
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None
Gibbs	C								
		Jan-Dec	---	---	---	---	None	---	None
6141:									
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Larkin	C								
		Jan-Dec	---	---	---	---	None	---	None
Southwick	C								
		January	24-32	28-36	---	---	None	---	None
		February	24-32	28-36	---	---	None	---	None
		March	24-32	28-36	---	---	None	---	None
		April	24-32	28-36	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6141:									
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Latah	D								
		January	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			31-38	>72					
		February	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	31-38	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	38-60	>72	---	---	None	---	---
		September	50-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	45-50	>72	---	---	None	---	---
		December	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			38-50	>72					

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
6200:									
Morical	C								
		Jan-Dec	---	---	---	---	None	---	None
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
Reardan	C								
		Jan-Dec	---	---	---	---	None	---	None
Swakane	D								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
6201:									
Morical	C								
		Jan-Dec	---	---	---	---	None	---	None
Athena	B								
		Jan-Dec	---	---	---	---	None	---	None
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Glenrose	C								
		Jan-Dec	---	---	---	---	None	---	None
Kramerhill	C								
		Jan-Dec	---	---	---	---	None	---	None
7090:									
Urban land	---								
		---	---	---	---	---	---	---	---
Lenz, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7090:									
Spokane, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Swakane, disturbed	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
7091:									
Urban land	---	---	---	---	---	---	---	---	---
Lenz, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Spokane, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Swakane, disturbed	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
7101:									
Pits	---	Jan-Dec	---	---	---	---	None	---	None
Dumps	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7102:									
Riverwash	---								
		January	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		February	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		March	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		April	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		May	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		June	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		July	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		August	0-24	>72	---	---	None	---	None
		September	0-24	>72	---	---	None	---	None
		October	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		November	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
		December	0-24	>72	---	---	None	Very long (more than 30 days)	Frequent
7103:									
Xerolls, warm, mass wasted	C								
		Jan-Dec	---	---	---	---	None	---	None
Bobbitt	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist, mass wasted	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7103:									
Dearyton	C/D								
		January	6-12	8-15	---	---	None	---	None
		February	6-12	8-15	---	---	None	---	None
		March	6-12	8-15	---	---	None	---	None
		April	6-12	8-15	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Speigle, mass wasted	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
7104:									
Xerolls, cool, mass wasted	C								
		Jan-Dec	---	---	---	---	None	---	None
Fan Lake	C/D								
		January	16-24	20-40	---	---	None	---	None
		February	16-24	20-40	---	---	None	---	None
		March	16-24	20-40	---	---	None	---	None
		April	16-24	20-40	---	---	None	---	None
Klickson, mass wasted	C								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Green Bluff	B								
		Jan-Dec	---	---	---	---	None	---	None
Blinn, stony surface	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7104:									
Elmira	A								
		Jan-Dec	---	---	---	---	None	---	None
Kronquist	C/D								
		January	12-27	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	10-20	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	27-40	>72	---	---	None	---	---
		July	40-55	>72	---	---	None	---	---
		August	55-72	>72	---	---	None	---	---
		September	55-72	>72	---	---	None	---	---
		October	55-72	>72	---	---	None	---	---
		November	40-55	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	---	---
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
7105:									
Urban land, gravelly substratum	---								
		---	---	---	---	---	---	---	---
Opportunity, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
7106:									
Urban land, gravelly substratum	---								
		---	---	---	---	---	---	---	---
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Marblespring, disturbed	A								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7107:									
Urban land, basalt bedrock substratum	---	---	---	---	---	---	---	---	---
Northstar, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
7110:									
Urban land	---	Jan-Dec	---	---	---	---	None	---	None
Opportunity, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Bong, moist, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Garrison, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Hardesty, disturbed	C/D	January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7111:									
Urban land	---	---	---	---	---	---	---	---	---
Opportunity, disturbed	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7111:									
Bong, moist, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Garrison, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty, disturbed	C/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marblespring, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
7112:									
Urban land	---								
		---	---	---	---	---	---	---	---
Opportunity, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Garrison, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty, disturbed	C/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7112:									
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7115:									
Urban land	---	---	---	---	---	---	---	---	---
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Opportunity, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Phoebe, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7116:									
Urban land	---	---	---	---	---	---	---	---	---
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Opportunity, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Phoebe, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7117:									
Urban land	---	---	---	---	---	---	---	---	---
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Opportunity, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Phoebe, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7120:									
Urban land	---	---	---	---	---	---	---	---	---
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Hardesty, disturbed	C/D	January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
7121:									
Urban land	---	---	---	---	---	---	---	---	---
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7121:									
Hardesty, disturbed	C/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Hagen, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Marblespring, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Phoebe, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
7122:									
Urban land	---								
		---	---	---	---	---	---	---	---
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty, disturbed	C/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7122:									
Lakespring, disturbed	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Marblespring, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
7123:									
Urban land	---								
		---	---	---	---	---	---	---	---
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring, disturbed	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Rubble land	---								
		Jan-Dec	---	---	---	---	None	---	None
Speigle, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
7130:									
Urban land	---								
		---	---	---	---	---	---	---	---
Northstar, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7130:									
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Rockly, disturbed	D								
		Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring, disturbed	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
7131:									
Urban land	---								
		---	---	---	---	---	---	---	---
Northstar, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
Rockly, disturbed	D								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring, disturbed	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Springdale, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7132:									
Urban land	---	---	---	---	---	---	---	---	---
Northstar, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Rockly, disturbed	D	Jan-Dec	---	---	---	---	None	---	None
Seaboldt, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7134:									
Urban land	---	---	---	---	---	---	---	---	---
Northstar, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Rockly, disturbed	D	Jan-Dec	---	---	---	---	None	---	None
Speigle, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Lakespring, disturbed	C/D	January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7140:									
Urban land	---	---	---	---	---	---	---	---	---
Uhlig, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Seaboldt, warm, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Brincken, moist, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Nez Perce, disturbed	C/D	January	18-24	19-26	---	---	None	---	None
		February	18-24	19-26	---	---	None	---	None
		March	14-20	19-26	---	---	None	---	None
		April	10-18	19-26	---	---	None	---	None
		December	18-24	19-26	---	---	None	---	None
7150:									
Urban land	---	---	---	---	---	---	---	---	---
Seaboldt, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Brincken, moist, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Uhlig, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Phoebe, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7151:									
Urban land	---	---	---	---	---	---	---	---	---
Seaboldt, disturbed	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7151:									
Brincken, moist, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Phoebe, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Uhlig, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
7152:									
Urban land	---	---	---	---	---	---	---	---	---
Seaboldt, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Lakespring, disturbed	C/D	January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Springdale, disturbed, stony surface	B	Jan-Dec	---	---	---	---	None	---	None
7163:									
Urban land	---	---	---	---	---	---	---	---	---
Spens, disturbed	A	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7163:									
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7170:									
Urban land	---	---	---	---	---	---	---	---	---
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Opportunity, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7171:									
Urban land	---	---	---	---	---	---	---	---	---
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Marblespring, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Brincken, moist, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Opportunity, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
7172:									
Urban land	---	---	---	---	---	---	---	---	---
Springdale, disturbed	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7172:									
Marblespring, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Spens, disturbed	A								
		Jan-Dec	---	---	---	---	None	---	None
7177:									
Urban land	---								
		---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Nez Perce, disturbed	C/D								
		January	18-24	19-26	---	---	None	---	None
		February	18-24	19-26	---	---	None	---	None
		March	14-20	19-26	---	---	None	---	None
		April	10-18	19-26	---	---	None	---	None
		December	18-24	19-26	---	---	None	---	None
Uhlig, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Stutler, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
7178:									
Urban land	---								
		---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7178:									
Nez Perce, disturbed	C/D								
		January	18-24	19-26	---	---	None	---	None
		February	18-24	19-26	---	---	None	---	None
		March	14-20	19-26	---	---	None	---	None
		April	10-18	19-26	---	---	None	---	None
		December	18-24	19-26	---	---	None	---	None
Uhlig, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Stutler, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
7179:									
Urban land	---								
		---	---	---	---	---	---	---	---
Seaboldt, warm, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Brincken, moist, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Rockly, disturbed	D								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
7180:									
Urban land	---								
		---	---	---	---	---	---	---	---
Phoebe, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7180:									
Hardesty, disturbed	C/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
7181:									
Urban land	---								
		---	---	---	---	---	---	---	---
Phoebe, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Bong, moist, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Hardesty, disturbed	C/D								
		January	40-50	>72	---	---	None	---	Rare
		February	23-30	>72	---	---	None	---	Rare
		March	30-40	>72	---	---	None	---	---
		April	30-40	>72	---	---	None	---	---
		May	40-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	40-60	>72	---	---	None	---	---
		December	40-50	>72	---	---	None	---	---
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
7182:									
Urban land	---								
		---	---	---	---	---	---	---	---
Phoebe, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7182:									
Bong, moist, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Lakespring, disturbed	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
7190:									
Urban land	---								
		---	---	---	---	---	---	---	---
Lakespring, disturbed	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None
Marble, disturbed	B								
		Jan-Dec	---	---	---	---	None	---	None
Northstar, disturbed	C								
		Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---								
		Jan-Dec	---	---	---	---	None	---	None
7191:									
Urban land	---								
		---	---	---	---	---	---	---	---
Lakespring, disturbed	C/D								
		January	21-38	24-40	---	---	None	---	None
		February	21-34	24-40	---	---	None	---	None
		March	21-34	24-40	---	---	None	---	None
		April	21-34	24-40	---	---	None	---	None
		December	21-38	24-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
7191:									
Marble, disturbed	B	Jan-Dec	---	---	---	---	None	---	None
Northstar, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
7197:									
Urban land	---	---	---	---	---	---	---	---	---
Spokane, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Lenz, disturbed	C	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
Swakane, disturbed	D	Jan-Dec	---	---	---	---	None	---	None
7200:									
Rock outcrop, cliffs	---	Jan-Dec	---	---	---	---	None	---	None
Rubble land, cliffs	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
8000:									
Pywell	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	20-25	>72	---	---	---	---	None
		August	20-30	>72	---	---	---	---	None
		September	20-30	>72	---	---	---	---	None
		October	20-30	>72	---	---	---	---	None
		November	20-25	>72	---	---	---	---	None
		December	6-14	>72	0-12	Long (7 to 30 days)	Frequent	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
8000:									
Bellslake	B/D								
		January	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		July	20-30	>72	---	---	---	---	None
		August	20-30	>72	---	---	---	---	None
		September	20-30	>72	---	---	---	---	None
		October	20-30	>72	---	---	---	---	None
		November	20-30	>72	---	---	---	---	None
		December	20-25	>72	---	---	---	---	None
Hoodoo	B/D								
		January	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	0-18	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	18-23	>72	---	---	None	---	---
		July	23-40	>72	---	---	None	---	---
		August	40-52	>72	---	---	None	---	---
		September	52-60	>72	---	---	None	---	---
		October	52-60	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	23-40	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
8001:									
Saltese	B/D								
		January	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		February	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		March	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		April	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		May	0-6	>72	0-12	Long (7 to 30 days)	Frequent	---	None
		June	6-16	>72	---	---	---	---	None
		July	16-24	>72	---	---	---	---	None
		August	16-24	>72	---	---	---	---	None
		September	16-24	>72	---	---	---	---	None
		October	16-24	>72	---	---	---	---	None
		November	12-16	>72	---	---	---	---	None
		December	0-12	>72	0-12	Long (7 to 30 days)	Frequent	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
8001:									
Cocolalla	B/D								
		January	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		February	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		March	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		April	0-11	>72	0-12	Long (7 to 30 days)	Frequent	Long (7 to 30 days)	Frequent
		May	11-28	>72	---	---	---	Long (7 to 30 days)	Frequent
		June	28-37	>72	---	---	---	---	---
		July	37-43	>72	---	---	---	---	---
		August	43-54	>72	---	---	---	---	---
		September	54-72	>72	---	---	---	---	---
		October	54-72	>72	---	---	---	---	---
		November	43-54	>72	---	---	---	---	---
		December	28-37	>72	---	---	---	Long (7 to 30 days)	Frequent
Narcisse	C								
		January	44-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	34-48	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	48-79	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		December	48-79	>72	---	---	None	---	---
Water	---								
		---	---	---	---	---	---	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
8002:									
Saltese, drained	C								
		January	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		February	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		March	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		April	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		May	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		June	24-40	>72	---	---	None	---	---
		July	40-72	>72	---	---	None	---	---
		August	40-72	>72	---	---	None	---	---
		September	40-72	>72	---	---	None	---	---
		October	40-72	>72	---	---	None	---	---
		November	40-72	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
Fluvaquentic Haplosaprists	C								
		January	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		February	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		March	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		April	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		May	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional
		June	24-40	>72	---	---	None	---	---
		July	40-72	>72	---	---	None	---	---
		August	40-72	>72	---	---	None	---	---
		September	40-72	>72	---	---	None	---	---
		October	40-72	>72	---	---	None	---	---
		November	40-72	>72	---	---	None	---	---
		December	24-40	>72	---	---	None	Long (7 to 30 days)	Occasional

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
8002:									
Peone, drained	C								
		January	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		February	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		March	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		April	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		May	30-42	>72	---	---	None	Brief (2 to 7 days)	Occasional
		June	42-72	>72	---	---	None	---	---
		July	42-72	>72	---	---	None	---	---
		August	42-72	>72	---	---	None	---	---
		September	42-72	>72	---	---	None	---	---
		October	42-72	>72	---	---	None	---	---
		November	42-72	>72	---	---	None	---	---
		December	30-42	>72	---	---	None	---	---
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9124:									
Caldwell	C/D								
		January	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		February	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	16-21	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	21-30	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	40-52	>72	---	---	None	---	---
		July	52-72	>72	---	---	None	---	---
		November	52-72	>72	---	---	None	---	---
		December	40-52	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
Cald	C/D								
		January	13-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		February	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		March	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		April	11-13	>72	---	---	None	Brief (2 to 7 days)	Frequent
		May	14-19	>72	---	---	None	Brief (2 to 7 days)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Brief (2 to 7 days)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9124:									
Endoaquolls	B/D								
		January	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		February	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		March	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		April	0-5	>72	---	---	None	Long (7 to 30 days)	Frequent
		May	5-11	>72	---	---	None	Long (7 to 30 days)	Frequent
		June	19-28	>72	---	---	None	Long (7 to 30 days)	Frequent
		July	28-45	>72	---	---	None	---	---
		August	45-72	>72	---	---	None	---	---
		September	45-72	>72	---	---	None	---	---
		October	45-72	>72	---	---	None	---	---
		November	28-45	>72	---	---	None	---	---
		December	12-20	>72	---	---	None	Long (7 to 30 days)	Frequent
Thatuna	C								
		February	24-36	30-40	---	---	None	---	None
		March	24-36	30-40	---	---	None	---	None
		April	24-36	30-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9124:									
Latah	C/D								
		January	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			31-38	>72					
		February	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		March	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		April	18-22	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		May	31-38	>72	---	---	None	Very brief (4 to 48 hours)	Occasional
		June	38-60	>72	---	---	None	---	---
		September	50-60	>72	---	---	None	---	---
		October	50-60	>72	---	---	None	---	---
		November	45-50	>72	---	---	None	---	---
		December	18-22	20-28	---	---	None	Very brief (4 to 48 hours)	Occasional
			38-50	>72					
9300:									
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
Carlinton, dry	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9300:									
Latahco	B/D								
		January	21-30	25-38	---	---	None	---	---
		February	18-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		March	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		April	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		May	21-30	25-38	---	---	None	---	---
		June	40-52	52-79	---	---	None	---	---
		December	40-52	52-79	---	---	None	---	---
Setters	C/D								
		February	15-20	25-40	---	---	None	---	None
		March	17-25	25-40	---	---	None	---	None
		April	20-30	25-40	---	---	None	---	None
Southwick	C								
		January	24-32	27-40	---	---	None	---	None
		February	24-32	27-40	---	---	None	---	None
		March	24-32	27-40	---	---	None	---	None
		April	24-32	27-40	---	---	None	---	None
9301:									
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
Carlinton, dry	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Benewah	B/D								
		February	15-20	25-40	---	---	None	---	None
		March	15-24	25-40	---	---	None	---	None
		April	20-30	25-40	---	---	None	---	None
Setters	C/D								
		February	15-20	25-40	---	---	None	---	None
		March	17-25	25-40	---	---	None	---	None
		April	20-30	25-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9301:									
Latahco	B/D								
		January	21-30	25-38	---	---	None	---	---
		February	18-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		March	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		April	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		May	21-30	25-38	---	---	None	---	---
		June	40-52	52-79	---	---	None	---	---
		December	40-52	52-79	---	---	None	---	---
9330:									
Carlinton	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Carlinton, dry	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Lovell	C/D								
		January	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		February	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		March	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		April	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		May	12-20	15-25	---	---	None	---	---
			28-49	>72					
		June	12-20	15-25	---	---	None	---	---
			28-49	>72					
		July	28-49	>72	---	---	None	---	---
		December	28-49	>72	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9330:									
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
Benewah	B/D								
		February	15-20	25-40	---	---	None	---	None
		March	15-24	25-40	---	---	None	---	None
		April	20-30	25-40	---	---	None	---	None
9335:									
Carlinton, dry	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Carlinton	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Taney	C/D								
		February	16-22	27-40	---	---	None	---	None
		March	20-24	27-40	---	---	None	---	None
		April	24-30	27-40	---	---	None	---	None
Benewah	B/D								
		February	15-20	25-40	---	---	None	---	None
		March	15-24	25-40	---	---	None	---	None
		April	20-30	25-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9335:									
Lovell	C/D								
		January	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		February	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		March	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		April	12-20	15-25	---	---	None	Brief (2 to 7 days)	Occasional
			28-49	>72					
		May	12-20	15-25	---	---	None	---	---
			28-49	>72					
		June	12-20	15-25	---	---	None	---	---
			28-49	>72					
		July	28-49	>72	---	---	None	---	---
		December	28-49	>72	---	---	None	---	---
Santa	C/D								
		February	14-19	20-40	---	---	None	---	None
		March	16-21	20-40	---	---	None	---	None
		April	21-30	20-40	---	---	None	---	None
9336:									
Carlinton, dry	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
Carlinton	C/D								
		February	14-20	26-40	---	---	None	---	None
		March	16-24	26-40	---	---	None	---	None
		April	24-30	26-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9336:									
Benewah	B/D								
		February	15-20	25-40	---	---	None	---	None
		March	15-24	25-40	---	---	None	---	None
		April	20-30	25-40	---	---	None	---	None
Santa	C/D								
		February	14-19	20-40	---	---	None	---	None
		March	16-21	20-40	---	---	None	---	None
		April	21-30	20-40	---	---	None	---	None
Latahco	B/D								
		January	21-30	25-38	---	---	None	---	---
		February	18-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		March	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		April	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		May	21-30	25-38	---	---	None	---	---
		June	40-52	52-79	---	---	None	---	---
		December	40-52	52-79	---	---	None	---	---
9340:									
Arson	B								
		Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C								
		Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B								
		Jan-Dec	---	---	---	---	None	---	None
Ardenvoir, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Bechtel	B								
		Jan-Dec	---	---	---	---	None	---	None
Sinkler	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9341:									
Sinkler	B								
		Jan-Dec	---	---	---	---	None	---	None
Arson	B								
		Jan-Dec	---	---	---	---	None	---	None
Benewah	B/D								
		February	15-20	25-40	---	---	None	---	None
		March	15-24	25-40	---	---	None	---	None
		April	20-30	25-40	---	---	None	---	None
Sharptop	B								
		Jan-Dec	---	---	---	---	None	---	None
Bechtel	B								
		Jan-Dec	---	---	---	---	None	---	None
Grangemont, warm	B								
		Jan-Dec	---	---	---	---	None	---	None
9342:									
Sinkler, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Arson, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
Ardenvoir, dry	B								
		Jan-Dec	---	---	---	---	None	---	None
McCrosket	B								
		Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C								
		Jan-Dec	---	---	---	---	None	---	None
Sinkler	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9350:									
Southwick	C								
		January	24-32	27-40	---	---	None	---	None
		February	24-32	27-40	---	---	None	---	None
		March	24-32	27-40	---	---	None	---	None
		April	24-32	27-40	---	---	None	---	None
Larkin	B								
		Jan-Dec	---	---	---	---	None	---	None
Latahco	B/D								
		January	21-30	25-38	---	---	None	---	---
		February	18-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		March	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		April	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		May	21-30	25-38	---	---	None	---	---
		June	40-52	52-79	---	---	None	---	---
		December	40-52	52-79	---	---	None	---	---
Cald	C/D								
		January	13-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		February	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		March	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		April	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		May	14-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Very brief (4 to 48 hours)	Frequent

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9350:									
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
9355:									
Southwick	C								
		January	24-32	27-40	---	---	None	---	None
		February	24-32	27-40	---	---	None	---	None
		March	24-32	27-40	---	---	None	---	None
		April	24-32	27-40	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Larkin	B								
		Jan-Dec	---	---	---	---	None	---	None
Latahco	B/D								
		January	21-30	25-38	---	---	None	---	---
		February	18-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		March	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		April	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		May	21-30	25-38	---	---	None	---	---
		June	40-52	52-79	---	---	None	---	---
		December	40-52	52-79	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9355:									
Cald	C/D								
		January	13-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		February	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		March	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		April	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		May	14-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None
9356:									
Southwick	C								
		January	24-32	27-40	---	---	None	---	None
		February	24-32	27-40	---	---	None	---	None
		March	24-32	27-40	---	---	None	---	None
		April	24-32	27-40	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Larkin	B								
		Jan-Dec	---	---	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9356:									
Cald	C/D								
		January	13-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		February	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		March	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		April	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		May	14-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
9363:									
Larkin	B								
		Jan-Dec	---	---	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Southwick	C								
		January	24-32	27-40	---	---	None	---	None
		February	24-32	27-40	---	---	None	---	None
		March	24-32	27-40	---	---	None	---	None
		April	24-32	27-40	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9363:									
Latahco	B/D								
		January	21-30	25-38	---	---	None	---	---
		February	18-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		March	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		April	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		May	21-30	25-38	---	---	None	---	---
		June	40-52	52-79	---	---	None	---	---
		December	40-52	52-79	---	---	None	---	---
Cald	C/D								
		January	13-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		February	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		March	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		April	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		May	14-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9364:									
Larkin	B								
		Jan-Dec	---	---	---	---	None	---	None
Southwick	C								
		January	24-32	27-40	---	---	None	---	None
		February	24-32	27-40	---	---	None	---	None
		March	24-32	27-40	---	---	None	---	None
		April	24-32	27-40	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Latahco	B/D								
		January	21-30	25-38	---	---	None	---	---
		February	18-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		March	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		April	16-21	25-38	---	---	None	Brief (2 to 7 days)	Occasional
		May	21-30	25-38	---	---	None	---	---
		June	40-52	52-79	---	---	None	---	---
		December	40-52	52-79	---	---	None	---	---

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9364:									
Cald	C/D								
		January	13-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		February	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		March	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		April	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		May	14-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
Taney	C/D								
		February	16-22	23-40	---	---	None	---	None
		March	20-24	23-40	---	---	None	---	None
		April	24-30	23-40	---	---	None	---	None
9367:									
Larkin	B								
		Jan-Dec	---	---	---	---	None	---	None
Driscoll	C/D								
		January	21-28	26-34	---	---	None	---	None
		February	21-28	26-34	---	---	None	---	None
		March	21-28	26-34	---	---	None	---	None
		April	21-28	26-34	---	---	None	---	None
Garfield	C								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9367:									
Southwick	C								
		January	24-32	27-40	---	---	None	---	None
		February	24-32	27-40	---	---	None	---	None
		March	24-32	27-40	---	---	None	---	None
		April	24-32	27-40	---	---	None	---	None
Cald	C/D								
		January	13-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		February	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		March	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		April	11-13	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		May	14-19	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
		June	29-40	>72	---	---	None	---	---
		July	40-52	>72	---	---	None	---	---
		November	40-52	>72	---	---	None	---	---
		December	29-40	>72	---	---	None	Very brief (4 to 48 hours)	Frequent
9610:									
Schumacher	B								
		Jan-Dec	---	---	---	---	None	---	None
Tekoa	C								
		Jan-Dec	---	---	---	---	None	---	None
Libertybutte	D								
		Jan-Dec	---	---	---	---	None	---	None
McCrosket	B								
		Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9610:									
Larkin	B	Jan-Dec	---	---	---	---	None	---	None
9611:									
Schumacher	B	Jan-Dec	---	---	---	---	None	---	None
Tekoa	C	Jan-Dec	---	---	---	---	None	---	None
Libertybutte	D	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Arson, dry	B	Jan-Dec	---	---	---	---	None	---	None
9612:									
Libertybutte	D	Jan-Dec	---	---	---	---	None	---	None
Tekoa	C	Jan-Dec	---	---	---	---	None	---	None
Schumacher	B	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
9613:									
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9613:									
Arson, dry	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
9614:									
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Pinecreek	B	Jan-Dec	---	---	---	---	None	---	None
9617:									
Tekoa	C	Jan-Dec	---	---	---	---	None	---	None
Schumacher	B	Jan-Dec	---	---	---	---	None	---	None
Libertybutte	D	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Arson, dry	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9701:									
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Huckle, dry	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
9703:									
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Huckle, dry	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
9704:									
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9704:									
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Arson, dry	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
9706:									
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Huckle	B	Jan-Dec	---	---	---	---	None	---	None
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Saint Maries, dry	B	Jan-Dec	---	---	---	---	None	---	None
9707:									
Huckle, dry	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
Ahrs	B	Jan-Dec	---	---	---	---	None	---	None
Saint Maries, dry	B	Jan-Dec	---	---	---	---	None	---	None
Rasser	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9707:									
Honeyjones, warm	B	Jan-Dec	---	---	---	---	None	---	None
9710:									
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Arson	B	Jan-Dec	---	---	---	---	None	---	None
Tekoa	C	Jan-Dec	---	---	---	---	None	---	None
9711:									
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Arson	B	Jan-Dec	---	---	---	---	None	---	None
Huckle, dry	B	Jan-Dec	---	---	---	---	None	---	None
Tekoa	C	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9712:									
McCrosket	B	Jan-Dec	---	---	---	---	None	---	None
Tekoa	C	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Rasser	B	Jan-Dec	---	---	---	---	None	---	None
9735:									
Lotuspoint, stony surface	C	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Pinecreek	B	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir	B	Jan-Dec	---	---	---	---	None	---	None
Rasser	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
9770:									
Pinecreek	B	Jan-Dec	---	---	---	---	None	---	None
Ahrs	B	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9770:									
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Rasser	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
9775:									
Pinecreek, moist	B	Jan-Dec	---	---	---	---	None	---	None
Ahrs	B	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Rasser	B	Jan-Dec	---	---	---	---	None	---	None
Honeyjones, warm	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
9776:									
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint, stony surface	C	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None

Table 15.--Water Features--Continued

Map symbol and soil name	Hydrologic group	Month	Water table		Ponding			Flooding	
			Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
			In	*In*	*In*				
9778:									
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint	C	Jan-Dec	---	---	---	---	None	---	None
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Pinecreek	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
9782:									
Ardenvoir, dry	B	Jan-Dec	---	---	---	---	None	---	None
Cassyhill	D	Jan-Dec	---	---	---	---	None	---	None
Lotuspoint, stony surface	C	Jan-Dec	---	---	---	---	None	---	None
Arson, dry	B	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	Jan-Dec	---	---	---	---	None	---	None
W:									
Water	---	---	---	---	---	---	---	---	---

Table 16.--Soil Features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
1001:									
Bridgeson	---	---	---	---	0	---	High	High	Low
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low
Pywell	---	---	---	---	5-15	10-30	High	High	High
Endoaquolls	---	---	---	---	0	---	High	High	Low
1010:									
Caldwell	---	---	---	---	0	---	High	High	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Latah	---	---	---	---	0	---	High	High	Low
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low
1015:									
Caldwell	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Endoaquolls	---	---	---	---	0	---	High	High	Low
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
1020:									
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
1020:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Saltese	---	---	---	---	8-15	40-60	None	High	Moderate
Water	---	---	---	---	---	---	---	---	---
1021:									
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Saltese	---	---	---	---	8-15	40-60	None	High	Moderate
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Water	---	---	---	---	---	---	---	---	---
1030:									
Emdent	---	---	---	---	0	---	High	Moderate	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Saltese	---	---	---	---	8-15	40-60	None	High	Moderate
1040:									
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Peone	---	---	---	---	0	---	High	Moderate	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
1050:									
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
Kronquist	---	---	---	---	0	---	High	High	Low
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Pywell	---	---	---	---	5-15	10-30	High	High	High
1070:									
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
Athena	---	---	---	---	0	---	High	Low	Low
Endoaquolls	---	---	---	---	0	---	High	High	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
1080:									
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Kronquist	---	---	---	---	0	---	High	High	Low
1081:									
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Kronquist	---	---	---	---	0	---	High	High	Low
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
1090:									
Peone	---	---	---	---	0	---	High	Moderate	Moderate
Saltese	---	---	---	---	8-15	40-60	None	High	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low
Kronquist	---	---	---	---	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
1090:									
Peone, drained	---	---	---	---	0	---	High	Moderate	Moderate
Water	---	---	---	---	---	---	---	---	---
1091:									
Peone, drained	---	---	---	---	0	---	High	Moderate	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Kronquist	---	---	---	---	0	---	High	High	Low
Cedonia	---	---	---	---	0	---	High	Low	Low
Endoaquolls	---	---	---	---	0	---	High	High	Low
1092:									
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
Bellslake	---	---	---	---	0	---	High	High	Moderate
Kronquist	---	---	---	---	0	---	High	High	Low
Pywell	---	---	---	---	5-15	10-30	High	High	High
Water	---	---	---	---	---	---	---	---	---
1120:									
Lovell	---	---	---	---	0	---	High	High	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Freeman	---	---	---	---	0	---	High	High	Moderate
Kronquist	---	---	---	---	0	---	High	High	Low
1130:									
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
Eloika	---	---	---	---	0	---	High	High	Low
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
1200:									
Endoaquolls	---	---	---	---	0	---	High	High	Low
Fluvaquents	---	---	---	---	0	---	Moderate	High	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Saltese	---	---	---	---	8-15	40-60	None	High	Moderate
Water	---	---	---	---	---	---	---	---	---
1203:									
Haploxerolls, channeled	---	---	---	---	0	---	High	Moderate	Low
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low
Riverwash	---	---	---	---	0	---	---	---	---
Water	---	---	---	---	---	---	---	---	---
1300:									
Aquepts, frigid	---	---	---	---	0	---	High	High	Moderate
Lovell	---	---	---	---	0	---	High	High	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Freeman	---	---	---	---	0	---	High	High	Moderate
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
Kronquist	---	---	---	---	0	---	High	High	Low
Pywell	---	---	---	---	5-15	10-30	High	High	High
Water	---	---	---	---	---	---	---	---	---
2040:									
Klickson, mass wasted	---	---	---	---	0	---	Moderate	Low	Moderate
Blinn, stony surface	Lithic bedrock	20-40	---	Very strongly cemented	0	---	Moderate	Low	Low
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
2040:									
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Xerolls, frigid, mass wasted	---	---	---	---	0	---	Low	Low	Moderate
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Speigle	---	---	---	---	0	---	Moderate	Low	Low
2041:									
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Blinn, stony surface	Lithic bedrock	20-40	---	Very strongly cemented	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Xerolls, frigid, mass wasted	---	---	---	---	0	---	Low	Low	Moderate
2042:									
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Rubble land	---	---	---	---	0	---	---	---	---
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
2043:									
Klickson, mass wasted	---	---	---	---	0	---	Moderate	Low	Moderate
Speigle, mass wasted	---	---	---	---	0	---	Moderate	Low	Low
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Spens	---	---	---	---	0	---	Low	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
2043:									
Xerolls, frigid, mass wasted	---	---	---	---	0	---	Low	Low	Moderate
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
2044:									
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Spens	---	---	---	---	0	---	Low	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rubble land	---	---	---	---	0	---	---	---	---
2045:									
Marble, mass wasted	---	---	---	---	0	---	Low	Low	Moderate
Speigle, mass wasted	---	---	---	---	0	---	Moderate	Low	Low
Spens	---	---	---	---	0	---	Low	Low	Low
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Klickson, mass wasted	---	---	---	---	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
2046:									
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Spens	---	---	---	---	0	---	Low	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
2046:									
Rubble land	---	---	---	---	0	---	---	---	---
2050:									
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Spens	---	---	---	---	0	---	Low	Low	Low
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
2051:									
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Spens	---	---	---	---	0	---	Low	Low	Low
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rubble land	---	---	---	---	0	---	---	---	---
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
2052:									
Brincken, moist, mass wasted	---	---	---	---	0	---	Moderate	Low	Low
Speigle, mass wasted	---	---	---	---	0	---	Moderate	Low	Low
Gibbs	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Klickson, mass wasted	---	---	---	---	0	---	Moderate	Low	Moderate
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
2053:									
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Rubble land	---	---	---	---	0	---	---	---	---
Spens	---	---	---	---	0	---	Low	Low	Low
2054:									
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Rubble land	---	---	---	---	0	---	---	---	---
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Spens	---	---	---	---	0	---	Low	Low	Low
2070:									
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Gibbs	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Stutler	---	---	---	---	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
2071:									
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Gibbs	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
2080:									
Gibbs	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Caldwell	---	---	---	---	0	---	High	High	Low
2081:									
Gibbs	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Lacy	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Low
2085:									
Tucannon	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Cheney	---	---	---	---	0	---	Moderate	High	Low
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
2085:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
2090:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Tucannon	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rubble land	---	---	---	---	0	---	---	---	---
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
2160:									
Scoap	---	---	---	---	0	---	Moderate	Low	Moderate
Rubble land	---	---	---	---	0	---	---	---	---
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
3010:									
Alecanyon, very stony surface	---	---	---	---	0	---	Low	Low	Moderate
Cheney	---	---	---	---	0	---	Moderate	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3015:									
Seaboldt, dry	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Cheney	---	---	---	---	0	---	Moderate	High	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3020:									
Bong	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate
Phoebe, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
3022:									
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3024:									
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3025:									
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Spens	---	---	---	---	0	---	Low	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3026:									
Phoebe, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Bong	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3030:									
Bonner	---	---	---	---	0	---	High	Moderate	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Stien, very stony surface	---	---	---	---	0	---	Moderate	Moderate	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
3031:									
Bonner	---	---	---	---	0	---	High	Moderate	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Stien, very stony surface	---	---	---	---	0	---	Moderate	Moderate	Moderate
Eloika	---	---	---	---	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3039:									
Alecanyon	---	---	---	---	0	---	Low	Low	Moderate
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Cheney	---	---	---	---	0	---	Moderate	High	Low
Deno	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
3040:									
Cheney	---	---	---	---	0	---	Moderate	High	Low
Alecanyon	---	---	---	---	0	---	Low	Low	Moderate
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
3041:									
Alecanyon, very stony surface	---	---	---	---	0	---	Low	Low	Moderate
Cheney	---	---	---	---	0	---	Moderate	High	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3042:									
Alecanyon, very stony surface	---	---	---	---	0	---	Low	Low	Moderate
Cheney	---	---	---	---	0	---	Moderate	High	Low
Athena	---	---	---	---	0	---	High	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Tucannon	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
3044:									
Cheney	---	---	---	---	0	---	Moderate	High	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Alecanyon	---	---	---	---	0	---	Low	Low	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Seaboldt, dry	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
3045:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Deno	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Cheney	---	---	---	---	0	---	Moderate	High	Low
Seaboldt, dry	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3046:									
Cheney	---	---	---	---	0	---	Moderate	High	Low
Seaboldt, dry	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
3047:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Deno	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop, cliffs	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
3048:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Water	---	---	---	---	---	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3049:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Rock outcrop, cliffs	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Deno	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Water	---	---	---	---	---	---	---	---	---
3054:									
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Clayton, silty subsoil	---	---	---	---	0	---	Moderate	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Phoebe, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
3055:									
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Clayton, silty subsoil	---	---	---	---	0	---	Moderate	Low	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
3056:									
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3056:									
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
3057:									
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
3060:									
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
3061:									
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3061:									
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
Endoaquolls	---	---	---	---	0	---	High	High	Low
3062:									
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3070:									
Eloika	---	---	---	---	0	---	High	High	Low
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Stien, very stony surface	---	---	---	---	0	---	Moderate	Moderate	Moderate
Torboy	---	---	---	---	0	---	Low	Low	Moderate
3071:									
Stien, very stony surface	---	---	---	---	0	---	Moderate	Moderate	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3071:									
Wapal	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Torboy	---	---	---	---	0	---	Low	Low	Moderate
3072:									
Stien, very stony surface	---	---	---	---	0	---	Moderate	Moderate	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
3073:									
Stien, very stony surface	---	---	---	---	0	---	Moderate	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
3074:									
Eloika, moist	---	---	---	---	0	---	High	High	Low
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Bonner	---	---	---	---	0	---	High	Moderate	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3074:									
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low
3080:									
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Springdale	---	---	---	---	0	---	Low	Low	Moderate
3081:									
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Springdale	---	---	---	---	0	---	Low	Low	Moderate
3082:									
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3083:									
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3083:									
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
3084:									
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Garrison, extremely stony surface	---	---	---	---	0	---	Moderate	Low	Low
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
3085:									
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Urban land	---	---	---	---	0	---	---	---	---
3087:									
Garrison, extremely stony surface	---	---	---	---	0	---	Moderate	Low	Low
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Urban land	---	---	---	---	0	---	---	---	---
3090:									
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3090:									
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low
3091:									
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Glenrose, cobbly surface	---	---	---	---	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
3101:									
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Blinn	Lithic bedrock	20-40	---	Very strongly cemented	0	---	Moderate	Low	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
3102:									
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3102:									
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3110:									
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Stutler	---	---	---	---	0	---	Moderate	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Seaboldt, warm	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
3112:									
Stutler, extremely bouldery surface	---	---	---	---	0	---	Moderate	Low	Low
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Springdale	---	---	---	---	0	---	Low	Low	Moderate
3113:									
Stutler	---	---	---	---	0	---	Moderate	Low	Low
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3114:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Water	---	---	---	---	---	---	---	---	---
3115:									
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Rubble land	---	---	---	---	0	---	---	---	---
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Stutler	---	---	---	---	0	---	Moderate	Low	Low
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
3116:									
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3117:									
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Rubble land	---	---	---	---	0	---	---	---	---
Speigle	---	---	---	---	0	---	Moderate	Low	Low
3118:									
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Water	---	---	---	---	---	---	---	---	---
3120:									
Marble	---	---	---	---	0	---	Low	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
3121:									
Marble	---	---	---	---	0	---	Low	Low	Moderate
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
Bong	---	---	---	---	0	---	Low	Low	Low
Hagen	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3121:									
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3122:									
Marble	---	---	---	---	0	---	Low	Low	Moderate
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Bong	---	---	---	---	0	---	Low	Low	Low
Elmira	---	---	---	---	0	---	Low	Low	Moderate
3123:									
Marble	---	---	---	---	0	---	Low	Low	Moderate
Spens	---	---	---	---	0	---	Low	Low	Low
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Spens, cool	---	---	---	---	0	---	Low	Low	Low
Bong	---	---	---	---	0	---	Low	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3126:									
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Rubble land	---	---	---	---	0	---	---	---	---
3127:									
Marblespring	---	---	---	---	0	---	Low	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3127:									
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Spens	---	---	---	---	0	---	Low	Low	Low
3130:									
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Bong	---	---	---	---	0	---	Low	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3131:									
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Bong	---	---	---	---	0	---	Low	Low	Low
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3132:									
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3133:									
Phoebe, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Bong	---	---	---	---	0	---	Low	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3134:									
Phoebe, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Bong	---	---	---	---	0	---	Low	Low	Low
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3135:									
Bong	---	---	---	---	0	---	Low	Low	Low
Phoebe, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3140:									
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale, stony surface	---	---	---	---	0	---	Low	Low	Moderate
3141:									
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Spens	---	---	---	---	0	---	Low	Low	Low
Garrison	---	---	---	---	0	---	Moderate	Low	Low
Opportunity	---	---	---	---	0	---	Moderate	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3142:									
Spens	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low
3143:									
Spens	---	---	---	---	0	---	Low	Low	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
3144:									
Wapal	---	---	---	---	0	---	Low	Low	Moderate
Bonner	---	---	---	---	0	---	High	Moderate	Moderate
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
3145:									
Wapal	---	---	---	---	0	---	Low	Low	Moderate
Scoap	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
3146:									
Scoap	---	---	---	---	0	---	Moderate	Low	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
Elmira	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3146:									
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rubble land	---	---	---	---	0	---	---	---	---
3147:									
Spens, cool	---	---	---	---	0	---	Low	Low	Low
Marble	---	---	---	---	0	---	Low	Low	Moderate
Springdale	---	---	---	---	0	---	Low	Low	Moderate
Wapal	---	---	---	---	0	---	Low	Low	Moderate
3148:									
Spens, cool	---	---	---	---	0	---	Low	Low	Low
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Spens	---	---	---	---	0	---	Low	Low	Low
Wapal	---	---	---	---	0	---	Low	Low	Moderate
3200:									
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
3201:									
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3202:									
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3210:									
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low
3211:									
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
3212:									
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Seaboldt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Stapaloop	---	---	---	---	0	---	Moderate	Low	Moderate
Elmira	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3212:									
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3220:									
Stapaloop	---	---	---	---	0	---	Moderate	Low	Moderate
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low
3221:									
Stapaloop	---	---	---	---	0	---	Moderate	Low	Moderate
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
3222:									
Stapaloop	---	---	---	---	0	---	Moderate	Low	Moderate
Seaboldt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3300:									
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3300:									
Torboy	---	---	---	---	0	---	Low	Low	Moderate
3301:									
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Kaniksu	---	---	---	---	0	---	Low	Low	Moderate
3302:									
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Eloika, moist	---	---	---	---	0	---	High	High	Low
3303:									
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Torboy	---	---	---	---	0	---	Low	Low	Moderate
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Eloika	---	---	---	---	0	---	High	High	Low
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
3401:									
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3401:									
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
3402:									
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Stapaloop	---	---	---	---	0	---	Moderate	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
3403:									
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Hagen	---	---	---	---	0	---	Low	Low	Moderate
Scrabblers	---	---	---	---	0	---	Low	Low	Moderate
Colburn	---	---	---	---	0	---	Moderate	Low	Moderate
3404:									
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Seaboldt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Kaniksu, dry	---	---	---	---	0	---	Low	Low	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3500:									
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Hardesty	---	---	---	---	0	---	High	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3501:									
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Seaboldt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Nez Perce	---	---	---	---	0	---	Moderate	High	Low
3502:									
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
3503:									
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Bong	---	---	---	---	0	---	Low	Low	Low
Cheney	---	---	---	---	0	---	Moderate	High	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Deno	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Seaboldt, dry	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
3504:									
Brincken	---	---	---	---	0	---	Moderate	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Cheney	---	---	---	---	0	---	Moderate	High	Low
Uhlig, dry	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
3504:									
Tucannon	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
3505:									
Seaboldt, warm	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Nez Perce	---	---	---	---	0	---	Moderate	High	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
Urban land	---	---	---	---	0	---	---	---	---
3600:									
Seaboldt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
Rockly	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
3601:									
Seaboldt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Fourmound	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Moderate
Northstar	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
Phoebe	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
4000:									
Hunters	---	---	---	---	0	---	High	Low	Moderate
Cedonia	---	---	---	---	0	---	High	Low	Low
Peone	---	---	---	---	0	---	High	Moderate	Moderate
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
4001:									
Cedonia	---	---	---	---	0	---	High	Low	Low
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Hunters	---	---	---	---	0	---	High	Low	Moderate
Peone	---	---	---	---	0	---	High	Moderate	Moderate
4002:									
Cedonia	---	---	---	---	0	---	High	Low	Low
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Peone	---	---	---	---	0	---	High	Moderate	Moderate
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Hunters	---	---	---	---	0	---	High	Low	Moderate
4031:									
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Cedonia	---	---	---	---	0	---	High	Low	Low
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
4032:									
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Marble	---	---	---	---	0	---	Low	Low	Moderate
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
4033:									
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Speigle	---	---	---	---	0	---	Moderate	Low	Low
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
4040:									
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Stapaloop	---	---	---	---	0	---	Moderate	Low	Moderate
Bridgeson	---	---	---	---	0	---	High	High	Low
4041:									
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Bridgeson	---	---	---	---	0	---	High	High	Low
Stapaloop	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
4050:									
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Wolfeson	---	---	---	---	0	---	Moderate	Moderate	Low
Kronquist	---	---	---	---	0	---	High	High	Low
4051:									
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Klickson	---	---	---	---	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Blinn, stony surface	Lithic bedrock	20-40	---	Very strongly cemented	0	---	Moderate	Low	Low
Kronquist	---	---	---	---	0	---	High	High	Low
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
5001:									
Brickel	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Vaywood	---	---	---	---	0	---	High	High	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5023:									
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5023:									
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
5024:									
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
5025:									
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
5026:									
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5026:									
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5027:									
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5037:									
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Spens	---	---	---	---	0	---	Low	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5040:									
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5041:									
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5053:									
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Hysing, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	Moderate	Low
Jacot	---	---	---	---	0	---	High	High	Moderate
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5053:									
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5060:									
Bouldercreek, moist	---	---	---	---	0	---	High	High	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Nakarna	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
5061:									
Nakarna	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Nakarna, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Low
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
5062:									
Nakarna	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Nakarna, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5062:									
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
5067:									
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
5068:									
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
5070:									
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5070:									
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5071:									
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5072:									
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Hardesty	---	---	---	---	0	---	High	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5073:									
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
5074:									
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
5080:									
Vaywood	---	---	---	---	0	---	High	High	Moderate
Vay	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brickel	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5081:									
Vaywood	---	---	---	---	0	---	High	High	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Vay	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Moderate
Brickel	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5090:									
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5091:									
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5092:									
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
5093:									
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5094:									
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5094:									
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5102:									
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Jacot	---	---	---	---	0	---	High	High	Moderate
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5103:									
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Jacot	---	---	---	---	0	---	High	High	Moderate
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5104:									
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5104:									
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5105:									
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5110:									
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5111:									
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Nakarna	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5111:									
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5112:									
Bouldercreek, dry	---	---	---	---	0	---	High	High	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Jacot	---	---	---	---	0	---	High	High	Moderate
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5113:									
Bouldercreek, dry	---	---	---	---	0	---	High	High	Moderate
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Jacot	---	---	---	---	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5114:									
Bouldercreek	---	---	---	---	0	---	High	High	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Bouldercreek, dry	---	---	---	---	0	---	High	High	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Jacot	---	---	---	---	0	---	High	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5114:									
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
5120:									
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Jacot	---	---	---	---	0	---	High	High	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Nakarna	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
5121:									
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5122:									
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Brevco	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5122:									
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5123:									
Kellerbutte	Lithic bedrock	60-80	---	Very strongly cemented	0	---	High	High	Moderate
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Blackprince	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Ardtoo	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Jacot	---	---	---	---	0	---	High	High	Moderate
5130:									
Brodeer	---	---	---	---	0	---	High	High	Moderate
Jacot	---	---	---	---	0	---	High	High	Moderate
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
5140:									
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Hysing, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	Moderate	Low
Brodeer	---	---	---	---	0	---	High	High	Moderate
Jacot	---	---	---	---	0	---	High	High	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5141:									
Jacot	---	---	---	---	0	---	High	High	Moderate
Hysing	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	Moderate	Low
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Brodeer	---	---	---	---	0	---	High	High	Moderate
5142:									
Jacot	---	---	---	---	0	---	High	High	Moderate
Hysing	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	Moderate	Low
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Hysing, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	Moderate	Low
5143:									
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Hysing, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	Moderate	Low
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Jacot	---	---	---	---	0	---	High	High	Moderate
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
5144:									
Jacot, dry	---	---	---	---	0	---	High	High	Moderate
Hysing, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	Moderate	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5144:									
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Boulderjud, dry	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Moderate
Jacot	---	---	---	---	0	---	High	High	Moderate
5211:									
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Keeler, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
5212:									
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Keeler	---	---	---	---	0	---	Moderate	Low	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
5213:									
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Keeler, dry	---	---	---	---	0	---	Moderate	Low	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Quinnamose	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Boulderjud	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5310:									
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
5313:									
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Clayton	---	---	---	---	0	---	Moderate	Low	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5314:									
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Lenz	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5314:									
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
5321:									
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist	---	---	---	---	0	---	Low	Low	Low
Endoaquolls, deep	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
5322:									
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Skalan	Paralithic bedrock	20-36	---	Weakly cemented	0	---	Moderate	Low	Moderate
	Lithic bedrock	20-40	---	Very strongly cemented					
Spokane	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5322:									
Endoaquolls, deep	Paralithic bedrock	40-60	---	Weakly cemented	0	---	High	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
5412:									
Keeler	---	---	---	---	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Santa	Fragipan	20-40	12-40	Noncemented	0	---	High	High	Moderate
Kronquist	---	---	---	---	0	---	High	High	Low
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
5413:									
Keeler	---	---	---	---	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Bouldercreek, dry	---	---	---	---	0	---	High	High	Moderate
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
5414:									
Keeler	---	---	---	---	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Micapeak	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Low	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5512:									
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Cavendish	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Crumarine	---	---	---	---	0	---	Moderate	High	Moderate
Reggear	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Santa, dry	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
5513:									
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
5602:									
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Keeler	---	---	---	---	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Lakestarr, dry	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Fluvaquents, frigid	---	---	---	---	0	---	Moderate	High	Moderate
Lovell	---	---	---	---	0	---	High	High	Moderate
5603:									
Lakestarr	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Keeler	---	---	---	---	0	---	Moderate	Low	Moderate
Kruse	---	---	---	---	0	---	Moderate	Moderate	Moderate
Bouldercreek	---	---	---	---	0	---	High	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
5603:									
Lakestarr, dry	Densic material	40-60	---	Noncemented	0	---	Moderate	High	Moderate
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
6001:									
Athena	---	---	---	---	0	---	High	Low	Low
Broadax	---	---	---	---	0	---	High	Low	Moderate
Lance	---	---	---	---	0	---	High	Low	Low
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
6002:									
Athena	---	---	---	---	0	---	High	Low	Low
Lance	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Hanning	---	---	---	---	0	---	High	Low	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate
6003:									
Athena	---	---	---	---	0	---	High	Low	Low
Lance	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Staley	---	---	---	---	0	---	High	Low	Low
Hanning	---	---	---	---	0	---	High	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6003:									
Caldwell	---	---	---	---	0	---	High	High	Low
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate
6004:									
Athena	---	---	---	---	0	---	High	Low	Low
Lance	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Staley	---	---	---	---	0	---	High	Low	Low
Hanning	---	---	---	---	0	---	High	Low	Moderate
Broadax	---	---	---	---	0	---	High	Low	Moderate
6010:									
Freeman	---	---	---	---	0	---	High	High	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Carlinton, dry	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Lovell	---	---	---	---	0	---	High	High	Moderate
Aquepts, frigid	---	---	---	---	0	---	High	High	Moderate
6011:									
Freeman	---	---	---	---	0	---	High	High	Moderate
Carlinton, dry	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Larkin	---	---	---	---	0	---	High	Moderate	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6011:									
Lovell	---	---	---	---	0	---	High	High	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low
6012:									
Freeman	---	---	---	---	0	---	High	High	Moderate
Carlinton, dry	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
Lovell	---	---	---	---	0	---	High	High	Moderate
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
6021:									
Garfield	---	---	---	---	0	---	Moderate	High	Low
Naff	---	---	---	---	0	---	High	Moderate	Low
Athena	---	---	---	---	0	---	High	Low	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Staley	---	---	---	---	0	---	High	Low	Low
6031:									
Staley	---	---	---	---	0	---	High	Low	Low
Naff	---	---	---	---	0	---	High	Moderate	Low
Lance	---	---	---	---	0	---	High	Low	Low
Broadax	---	---	---	---	0	---	High	Low	Moderate
Garfield	---	---	---	---	0	---	Moderate	High	Low
6040:									
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Freeman	---	---	---	---	0	---	High	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6040:									
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
6041:									
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate
Freeman	---	---	---	---	0	---	High	High	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
6042:									
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Freeman	---	---	---	---	0	---	High	High	Moderate
Gibbs	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6043:									
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
Freeman	---	---	---	---	0	---	High	High	Moderate
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
6045:									
Southwick	---	---	---	---	0	---	High	High	Moderate
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Freeman	---	---	---	---	0	---	High	High	Moderate
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
6050:									
Tilma	---	---	---	---	0	---	Moderate	High	Moderate
Latah	---	---	---	---	0	---	High	High	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Naff	---	---	---	---	0	---	High	Moderate	Low
Cald	---	---	---	---	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6061:									
Naff	---	---	---	---	0	---	High	Moderate	Low
Staley	---	---	---	---	0	---	High	Low	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Broadax	---	---	---	---	0	---	High	Low	Moderate
Garfield	---	---	---	---	0	---	Moderate	High	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
6062:									
Naff	---	---	---	---	0	---	High	Moderate	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
Athena	---	---	---	---	0	---	High	Low	Low
Staley	---	---	---	---	0	---	High	Low	Low
Cald	---	---	---	---	0	---	High	High	Low
Caldwell	---	---	---	---	0	---	High	High	Low
6064:									
Naff	---	---	---	---	0	---	High	Moderate	Low
Athena	---	---	---	---	0	---	High	Low	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
Staley	---	---	---	---	0	---	High	Low	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6067:									
Naff	---	---	---	---	0	---	High	Moderate	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Athena	---	---	---	---	0	---	High	Low	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Staley	---	---	---	---	0	---	High	Low	Low
6068:									
Naff	---	---	---	---	0	---	High	Moderate	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Athena	---	---	---	---	0	---	High	Low	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Staley	---	---	---	---	0	---	High	Low	Low
6072:									
Hanning	---	---	---	---	0	---	High	Low	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Lance	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
6073:									
Hanning	---	---	---	---	0	---	High	Low	Moderate
Lance	---	---	---	---	0	---	High	Low	Low
Athena	---	---	---	---	0	---	High	Low	Low
Mondovi	---	---	---	---	0	---	High	Moderate	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6073:									
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
6074:									
Hanning	---	---	---	---	0	---	High	Low	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Lance	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
6080:									
Nez Perce	---	---	---	---	0	---	Moderate	High	Low
Brincken, moist	---	---	---	---	0	---	Moderate	Low	Low
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Uhlig	---	---	---	---	0	---	Moderate	Low	Moderate
6093:									
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Broadax	---	---	---	---	0	---	High	Low	Moderate
Lance	---	---	---	---	0	---	High	Low	Low
Hanning	---	---	---	---	0	---	High	Low	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
6094:									
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Hanning	---	---	---	---	0	---	High	Low	Moderate
Broadax	---	---	---	---	0	---	High	Low	Moderate
Lance	---	---	---	---	0	---	High	Low	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Athena	---	---	---	---	0	---	High	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6096:									
Broadax	---	---	---	---	0	---	High	Low	Moderate
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Lance	---	---	---	---	0	---	High	Low	Low
Athena	---	---	---	---	0	---	High	Low	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Hanning	---	---	---	---	0	---	High	Low	Moderate
6110:									
Broadax	---	---	---	---	0	---	High	Low	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Lance	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Caldwell	---	---	---	---	0	---	High	High	Low
Hanning	---	---	---	---	0	---	High	Low	Moderate
6111:									
Broadax	---	---	---	---	0	---	High	Low	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Lance	---	---	---	---	0	---	High	Low	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Naff	---	---	---	---	0	---	High	Moderate	Low
Hanning	---	---	---	---	0	---	High	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6112:									
Broadax	---	---	---	---	0	---	High	Low	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Lance	---	---	---	---	0	---	High	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Naff	---	---	---	---	0	---	High	Moderate	Low
Caldwell	---	---	---	---	0	---	High	High	Low
6130:									
Thatuna	---	---	---	---	0	---	High	High	Low
Naff	---	---	---	---	0	---	High	Moderate	Low
Athena	---	---	---	---	0	---	High	Low	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
Caldwell	---	---	---	---	0	---	High	High	Low
6131:									
Thatuna	---	---	---	---	0	---	High	High	Low
Naff	---	---	---	---	0	---	High	Moderate	Low
Athena	---	---	---	---	0	---	High	Low	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
Caldwell	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
6140:									
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
6140:									
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Gibbs	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
6141:									
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Larkin	---	---	---	---	0	---	High	Moderate	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate
Cald	---	---	---	---	0	---	High	High	Low
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Latah	---	---	---	---	0	---	High	High	Low
6200:									
Morical	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low
Reardan	---	---	---	---	0	---	Moderate	Moderate	Moderate
Swakane	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
6201:									
Morical	Paralithic bedrock	20-40	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Athena	---	---	---	---	0	---	High	Low	Low
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Glenrose	---	---	---	---	0	---	Moderate	Low	Moderate
Kramerhill	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7090:									
Urban land	---	---	---	---	0	---	---	---	---
Lenz, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Spokane, disturbed	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Swakane, disturbed	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7091:									
Urban land	---	---	---	---	0	---	---	---	---
Lenz, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Spokane, disturbed	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Swakane, disturbed	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7101:									
Pits	---	---	---	---	0	---	---	---	---
Dumps	---	---	---	---	---	---	---	---	---
7102:									
Riverwash	---	---	---	---	0	---	---	---	---
7103:									
Xerolls, warm, mass wasted	---	---	---	---	0	---	Low	Low	Moderate
Bobbitt	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist, mass wasted	---	---	---	---	0	---	Moderate	Low	Low
Dearyton	---	---	---	---	0	---	Moderate	High	Moderate
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7103:									
Speigle, mass wasted	---	---	---	---	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7104:									
Xerolls, cool, mass wasted	---	---	---	---	0	---	Low	Low	Moderate
Fan Lake	---	---	---	---	0	---	Moderate	High	Low
Klickson, mass wasted	---	---	---	---	0	---	Moderate	Low	Moderate
Lakespring	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
7104:									
Green Bluff	---	---	---	---	0	---	Moderate	Low	Low
Blinn, stony surface	Lithic bedrock	20-40	---	Very strongly cemented	0	---	Moderate	Low	Low
Elmira	---	---	---	---	0	---	Low	Low	Moderate
Kronquist	---	---	---	---	0	---	High	High	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7105:									
Urban land, gravelly substratum	---	---	---	---	0	---	---	---	---
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
7106:									
Urban land, gravelly substratum	---	---	---	---	0	---	---	---	---
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7107:									
Urban land, basalt bedrock substratum----	---	---	---	---	0	---	---	---	---
Northstar, disturbed---	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop-----------	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7110:									
Urban land-------------	---	---	---	---	0	---	---	---	---
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist, disturbed	---	---	---	---	0	---	Low	Low	Low
Garrison, disturbed----	---	---	---	---	0	---	Moderate	Low	Low
Hardesty, disturbed----	---	---	---	---	0	---	High	Moderate	Low
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7111:									
Urban land-------------	---	---	---	---	0	---	---	---	---
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist, disturbed	---	---	---	---	0	---	Low	Low	Low
Garrison, disturbed----	---	---	---	---	0	---	Moderate	Low	Low
Hardesty, disturbed----	---	---	---	---	0	---	High	Moderate	Low
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7112:									
Urban land-------------	---	---	---	---	0	---	---	---	---
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist, disturbed	---	---	---	---	0	---	Low	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7112:									
Garrison, disturbed----	---	---	---	---	0	---	Moderate	Low	Low
Hardesty, disturbed----	---	---	---	---	0	---	High	Moderate	Low
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7115:									
Urban land----------	---	---	---	---	0	---	---	---	---
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Phoebe, disturbed------	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7116:									
Urban land----------	---	---	---	---	0	---	---	---	---
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Phoebe, disturbed------	---	---	---	---	0	---	Moderate	Low	Moderate
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7117:									
Urban land----------	---	---	---	---	0	---	---	---	---
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Phoebe, disturbed------	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7117:									
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7120:									
Urban land----------	---	---	---	---	0	---	---	---	---
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Hardesty, disturbed----	---	---	---	---	0	---	High	Moderate	Low
7121:									
Urban land----------	---	---	---	---	0	---	---	---	---
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
Hardesty, disturbed----	---	---	---	---	0	---	High	Moderate	Low
Hagen, disturbed-------	---	---	---	---	0	---	Low	Low	Moderate
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Phoebe, disturbed------	---	---	---	---	0	---	Moderate	Low	Moderate
7122:									
Urban land----------	---	---	---	---	0	---	---	---	---
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
Bong, moist, disturbed	---	---	---	---	0	---	Low	Low	Low
Hardesty, disturbed----	---	---	---	---	0	---	High	Moderate	Low
Lakespring, disturbed--	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Rock outcrop----------	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7123:									
Urban land----------	---	---	---	---	0	---	---	---	---
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7123:									
Lakespring, disturbed--	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Rock outcrop-----------	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rubble land------------	---	---	---	---	0	---	---	---	---
Speigle, disturbed-----	---	---	---	---	0	---	Moderate	Low	Low
7130:									
Urban land------------	---	---	---	---	0	---	---	---	---
Northstar, disturbed---	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop-----------	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rockly, disturbed------	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
Lakespring, disturbed--	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
7131:									
Urban land------------	---	---	---	---	0	---	---	---	---
Northstar, disturbed---	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop-----------	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rockly, disturbed------	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Lakespring, disturbed--	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7132:									
Urban land------------	---	---	---	---	0	---	---	---	---
Northstar, disturbed---	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop-----------	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rockly, disturbed------	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Seaboldt, disturbed----	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7132:									
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
7134:									
Urban land----------	---	---	---	---	0	---	---	---	---
Northstar, disturbed---	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop----------	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rockly, disturbed------	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Speigle, disturbed-----	---	---	---	---	0	---	Moderate	Low	Low
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
Lakespring, disturbed--	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
7140:									
Urban land----------	---	---	---	---	0	---	---	---	---
Uhlig, disturbed-------	---	---	---	---	0	---	Moderate	Low	Moderate
Seaboldt, warm, disturbed----------	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist, disturbed----------	---	---	---	---	0	---	Moderate	Low	Low
Nez Perce, disturbed---	---	---	---	---	0	---	Moderate	High	Low
7150:									
Urban land----------	---	---	---	---	0	---	---	---	---
Seaboldt, disturbed----	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist, disturbed----------	---	---	---	---	0	---	Moderate	Low	Low
Uhlig, disturbed-------	---	---	---	---	0	---	Moderate	Low	Moderate
Phoebe, disturbed------	---	---	---	---	0	---	Moderate	Low	Moderate
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7151:									
Urban land	---	---	---	---	0	---	---	---	---
Seaboldt, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist, disturbed	---	---	---	---	0	---	Moderate	Low	Low
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Phoebe, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Uhlig, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
7152:									
Urban land	---	---	---	---	0	---	---	---	---
Seaboldt, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Lakespring, disturbed	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Springdale, disturbed, stony surface	---	---	---	---	0	---	Low	Low	Moderate
7163:									
Urban land	---	---	---	---	0	---	---	---	---
Spens, disturbed	---	---	---	---	0	---	Low	Low	Low
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Springdale, disturbed	---	---	---	---	0	---	Low	Low	Moderate
7170:									
Urban land	---	---	---	---	0	---	---	---	---
Springdale, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7170:									
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
7171:									
Urban land-------------	---	---	---	---	0	---	---	---	---
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Brincken, moist, disturbed-------------	---	---	---	---	0	---	Moderate	Low	Low
Opportunity, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Marble, disturbed------	---	---	---	---	0	---	Low	Low	Moderate
7172:									
Urban land-------------	---	---	---	---	0	---	---	---	---
Springdale, disturbed--	---	---	---	---	0	---	Low	Low	Moderate
Marblespring, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Spens, disturbed-------	---	---	---	---	0	---	Low	Low	Low
7177:									
Urban land-------------	---	---	---	---	0	---	---	---	---
Seaboldt, warm, disturbed-------------	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist, disturbed-------------	---	---	---	---	0	---	Moderate	Low	Low
Nez Perce, disturbed---	---	---	---	---	0	---	Moderate	High	Low
Uhlig, disturbed-------	---	---	---	---	0	---	Moderate	Low	Moderate
Stutler, disturbed-----	---	---	---	---	0	---	Moderate	Low	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7178:									
Urban land	---	---	---	---	0	---	---	---	---
Seaboldt, warm, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist, disturbed	---	---	---	---	0	---	Moderate	Low	Low
Nez Perce, disturbed	---	---	---	---	0	---	Moderate	High	Low
Uhlig, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Stutler, disturbed	---	---	---	---	0	---	Moderate	Low	Low
7179:									
Urban land	---	---	---	---	0	---	---	---	---
Seaboldt, warm, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Low
Brincken, moist, disturbed	---	---	---	---	0	---	Moderate	Low	Low
Rockly, disturbed	Lithic bedrock	4-12	---	Indurated	0	---	Moderate	Low	Low
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7180:									
Urban land	---	---	---	---	0	---	---	---	---
Phoebe, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist, disturbed	---	---	---	---	0	---	Low	Low	Low
Hardesty, disturbed	---	---	---	---	0	---	High	Moderate	Low
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7181:									
Urban land	---	---	---	---	0	---	---	---	---
Phoebe, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist, disturbed	---	---	---	---	0	---	Low	Low	Low
Hardesty, disturbed	---	---	---	---	0	---	High	Moderate	Low
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
7182:									
Urban land	---	---	---	---	0	---	---	---	---
Phoebe, disturbed	---	---	---	---	0	---	Moderate	Low	Moderate
Bong, moist, disturbed	---	---	---	---	0	---	Low	Low	Low
Lakespring, disturbed	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
7190:									
Urban land	---	---	---	---	0	---	---	---	---
Lakespring, disturbed	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Northstar, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
7191:									
Urban land	---	---	---	---	0	---	---	---	---
Lakespring, disturbed	Densic material	20-40	---	Noncemented	0	---	Moderate	High	Low
Marble, disturbed	---	---	---	---	0	---	Low	Low	Moderate
Northstar, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
7197:									
Urban land	---	---	---	---	0	---	---	---	---
Spokane, disturbed	Paralithic bedrock	20-40	---	Weakly cemented	0	---	Moderate	Low	Low
Lenz, disturbed	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Swakane, disturbed	Lithic bedrock	10-20	---	Strongly cemented	0	---	Moderate	Low	Moderate
7200:									
Rock outcrop, cliffs	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
Rubble land, cliffs	---	---	---	---	0	---	---	---	---
8000:									
Pywell	---	---	---	---	5-15	10-30	High	High	High
Bellslake	---	---	---	---	0	---	High	High	Moderate
Hoodoo	---	---	---	---	0	---	High	Moderate	Low
8001:									
Saltese	---	---	---	---	8-15	40-60	None	High	Moderate
Cocolalla	---	---	---	---	0	---	High	Moderate	Moderate
Narcisse	---	---	---	---	0	---	Moderate	Moderate	Low
Water	---	---	---	---	---	---	---	---	---
8002:									
Saltese, drained	---	---	---	---	8-15	40-60	None	High	Moderate
Fluvaquentic Haplosaprists	---	---	---	---	8-15	40-60	None	High	Moderate
Peone, drained	---	---	---	---	0	---	High	Moderate	Moderate
Endoaquolls	---	---	---	---	0	---	High	High	Low

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9124:									
Caldwell	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Endoaquolls	---	---	---	---	0	---	High	High	Low
Thatuna	---	---	---	---	0	---	High	High	Low
Latah	---	---	---	---	0	---	High	High	Low
9300:									
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
Carlinton, dry	Fragipan	21-40	---	Noncemented	0	---	High	High	Moderate
Latahco	---	---	---	---	0	---	High	High	Low
Setters	Abrupt textural change	21-30	---	Noncemented	0	---	Moderate	High	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate
9301:									
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
Carlinton, dry	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Benewah	---	---	---	---	0	---	High	High	High
Setters	Abrupt textural change	25-40	---	Noncemented	0	---	Moderate	High	Moderate
Latahco	---	---	---	---	0	---	High	High	Low
9330:									
Carlinton	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Carlinton, dry	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Lovell	---	---	---	---	0	---	High	High	Moderate
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
Benewah	---	---	---	---	0	---	High	High	High

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9335:									
Carlinton, dry	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Carlinton	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
Benewah	---	---	---	---	0	---	High	High	High
Lovell	---	---	---	---	0	---	High	High	Moderate
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
9336:									
Carlinton, dry	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
Carlinton	Fragipan	26-40	---	Noncemented	0	---	High	High	Moderate
Benewah	---	---	---	---	0	---	High	High	High
Santa	Fragipan	20-40	---	Noncemented	0	---	High	High	Moderate
Latahco	---	---	---	---	0	---	High	High	Low
9340:									
Arson	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Bechtel	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Sinkler	---	---	---	---	0	---	High	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9341:									
Sinkler	---	---	---	---	0	---	High	Low	Moderate
Arson	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Benewah	---	---	---	---	0	---	High	High	High
Sharptop	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	Low	Moderate
Bechtel	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Low	Moderate
Grangemont, warm	---	---	---	---	0	---	High	Low	Moderate
9342:									
Sinkler, dry	---	---	---	---	0	---	High	Low	Moderate
Arson, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Sinkler	---	---	---	---	0	---	High	Low	Moderate
9350:									
Southwick	---	---	---	---	0	---	High	High	Moderate
Larkin	---	---	---	---	0	---	High	Low	Moderate
Latahco	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9355:									
Southwick	---	---	---	---	0	---	High	High	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Larkin	---	---	---	---	0	---	High	Low	Moderate
Latahco	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
9356:									
Southwick	---	---	---	---	0	---	High	High	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Larkin	---	---	---	---	0	---	High	Low	Moderate
Garfield	---	---	---	---	0	---	Moderate	High	Low
Cald	---	---	---	---	0	---	High	High	Low
9363:									
Larkin	---	---	---	---	0	---	High	Low	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate
Latahco	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Garfield	---	---	---	---	0	---	Moderate	High	Low
9364:									
Larkin	---	---	---	---	0	---	High	Low	Moderate
Southwick	---	---	---	---	0	---	High	High	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9364:									
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Latahco	---	---	---	---	0	---	High	High	Low
Cald	---	---	---	---	0	---	High	High	Low
Taney	Fragipan	23-40	---	Noncemented	0	---	High	High	High
9367:									
Larkin	---	---	---	---	0	---	High	Low	Moderate
Driscoll	Abrupt textural change	25-35	---	Noncemented	0	---	Moderate	High	Moderate
Garfield	---	---	---	---	0	---	Moderate	High	Low
Southwick	---	---	---	---	0	---	High	High	Moderate
Cald	---	---	---	---	0	---	High	High	Low
9610:									
Schumacher	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Tekoa	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Libertybutte	Paralithic bedrock	12-19	---	Moderately cemented	0	---	Moderate	Low	Low
	Lithic bedrock	12-20	---	Indurated					
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Larkin	---	---	---	---	0	---	High	Low	Moderate
9611:									
Schumacher	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Tekoa	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Libertybutte	Paralithic bedrock	12-19	---	Moderately cemented	0	---	Moderate	Low	Low
	Lithic bedrock	12-20	---	Indurated					

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9611:									
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Arson, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
9612:									
Libertybutte	Paralithic bedrock	12-19	---	Moderately cemented	0	---	Moderate	Low	Low
	Lithic bedrock	12-20	---	Indurated					
Tekoa	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Schumacher	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
9613:									
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Arson, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
9614:									
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9614:									
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Pinecreek	---	---	---	---	0	---	High	High	Moderate
9617:									
Tekoa	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Schumacher	Lithic bedrock	40-60	---	Indurated	0	---	Moderate	Low	Low
Libertybutte	Paralithic bedrock	12-19	---	Moderately cemented	0	---	Moderate	Low	Low
	Lithic bedrock	12-20	---	Indurated					
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Arson, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
9701:									
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Huckle, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Low
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
9703:									
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9703:									
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Huckle, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Low
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
9704:									
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Arson, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
9706:									
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Huckle	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Low
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Saint Maries, dry	---	---	---	---	0	---	Moderate	Moderate	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9707:									
Huckle, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Low
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Ahrs	---	---	---	---	0	---	Moderate	Moderate	Moderate
Saint Maries, dry	---	---	---	---	0	---	Moderate	Moderate	Moderate
Rasser	---	---	---	---	0	---	Moderate	Low	Moderate
Honeyjones, warm	---	---	---	---	0	---	High	High	Low
9710:									
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Arson	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Tekoa	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Low
9711:									
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Arson	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9711:									
Huckle, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	High	High	Low
Tekoa	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Low
9712:									
McCrosket	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Tekoa	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Low
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Rasser	---	---	---	---	0	---	Moderate	Low	Moderate
9735:									
Lotuspoint, stony surface	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Pinecreek	---	---	---	---	0	---	Moderate	Low	Moderate
Ardenvoir	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Rasser	---	---	---	---	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
9770:									
Pinecreek	---	---	---	---	0	---	Moderate	Low	Moderate
Ahrs	---	---	---	---	0	---	Moderate	Low	Moderate
Lotuspoint	Lithic bedrock	20-39	---	Indurated	0	---	Moderate	Moderate	Moderate
Rasser	---	---	---	---	0	---	Moderate	Low	Moderate

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9770:									
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
9775:									
Pinecreek, moist	---	---	---	---	0	---	Moderate	Moderate	Moderate
Ahrs	---	---	---	---	0	---	Moderate	Moderate	Moderate
Lotuspoint	Lithic bedrock	20-39	---	Indurated	0	---	Moderate	Moderate	Moderate
Rasser	---	---	---	---	0	---	Moderate	Moderate	Moderate
Honeyjones, warm	---	---	---	---	0	---	Moderate	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
9776:									
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Lotuspoint, stony surface	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
9778:									
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Lotuspoint	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					
Pinecreek	---	---	---	---	0	---	Moderate	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
9782:									
Ardenvoir, dry	Paralithic bedrock	40-60	---	Moderately cemented					

Table 16.--Soil Features--Continued

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	*In*		*In*	*In*			
9782:									
Cassyhill	Lithic bedrock	10-20	---	Indurated	0	---	Moderate	Low	Moderate
Lotuspoint, stony surface	Lithic bedrock	20-40	---	Indurated	0	---	Moderate	Moderate	Moderate
Arson, dry	Paralithic bedrock	40-60	---	Moderately cemented	0	---	Moderate	Moderate	Moderate
Rock outcrop	Lithic bedrock	0-0	---	Indurated	0	---	---	---	---
W:									
Water	---	---	---	---	---	---	---	---	---

Table 17.--Taxonomic Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Ahrs[1]	Ashy-skeletal over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands
Alecanyon	Sandy-skeletal, mixed, mesic Vitrandic Haploxerolls
Aquepts	Aquepts
Ardenvoir	Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts
Ardtoo	Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts
Arson	Fine-loamy, mixed, superactive, frigid Vitrandic Haploxeralfs
Athena	Fine-silty, mixed, superactive, mesic Pachic Haploxerolls
Bechtel[1]	Fine-loamy, mixed, superactive, frigid Vitrandic Hapludalfs
Bellslake	Coarse-silty, mixed, superactive, nonacid, frigid Aquandic Humaquepts
Benewah[1]	Fine-silty, isotic, frigid Vitrandic Haploxeralfs
Blackprince	Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts
Blinn[1]	Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts
Bobbitt	Loamy-skeletal, isotic, mesic Vitrandic Argixerolls
Bong	Sandy, mixed, mesic Vitrandic Haploxerolls
*Bonner	Ashy over sandy or sandy-skeletal, glassy over isotic, frigid Typic Vitrixerands
Bouldercreek	Ashy over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands
Boulderjud	Ashy over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands
Brevco	Loamy-skeletal, isotic, frigid Vitrandic Haploxerepts
*Brickel	Ashy-skeletal, amorphic Humic Vitricryands
Bridgeson	Fine-loamy, mixed, superactive, frigid Aquandic Endoaquolls
Brincken	Loamy-skeletal, mixed, superactive, mesic Vitrandic Argixerolls
Broadax	Fine-silty, mixed, superactive, mesic Calcic Argixerolls
Brodeer	Ashy over loamy, amorphic over mixed, superactive, frigid Alfic Udivitrands
Cald	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Caldwell	Fine-silty, mixed, superactive, mesic Cumulic Haploxerolls
Carlinton	Fine-silty, mixed, superactive, frigid Vitrandic Fragixeralfs
Cassyhill	Loamy-skeletal, isotic, mesic Lithic Ultic Haploxerolls
Cavendish[1]	Fine-loamy, mixed, superactive, frigid Vitrandic Haploxeralfs
Cedonia	Fine-silty, mixed, superactive, mesic Vitrandic Haploxerepts
Cheney	Coarse-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Vitrandic Haploxerolls
Clayton	Coarse-loamy, isotic, mesic Vitrandic Haploxerepts
Cocolalla	Ashy, glassy, mesic Aquandic Endoaquolls
*Colburn	Coarse-loamy, mixed, superactive, frigid Aquandic Haploxerepts
Crumarine[1]	Coarse-loamy, isotic, frigid Aquandic Haploxerepts
Dearyton	Fine, isotic, mesic Vitrandic Palexeralfs
Deno	Coarse-loamy, mixed, superactive, mesic Vitrandic Haploxerolls
*Driscoll	Fine, mixed, superactive, mesic Aquic Palexerolls
Elmira	Mixed, frigid Lamellic Xeropsamments
Eloika	Ashy over loamy, glassy over isotic, frigid Typic Vitrixerands
Emdent	Ashy, glassy, calcareous, mesic Aquandic Endoaquolls
Endoaquolls	Endoaquolls
Fan Lake	Fine-loamy, isotic, frigid Andic Haploxeralfs
Fluvaquentic Haplosaprists[1]	Fluvaquentic Haplosaprists
Fluvaquents	Fluvaquents
Fourmound	Coarse-loamy, isotic, mesic Vitrandic Haploxerolls
Freeman	Fine-silty, mixed, superactive, mesic Aquandic Palexeralfs
Garfield	Fine, mixed, superactive, mesic Mollic Haploxeralfs
Garrison	Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls
Gibbs	Fine-loamy, isotic, mesic Vitrandic Argixerolls
Glenrose	Fine-loamy, isotic, mesic Vitrandic Argixerolls
Grangemont[1]	Fine-silty, mixed, active, frigid Andic Glossudalfs
Green Bluff	Coarse-loamy, isotic, frigid Vitrandic Haploxerepts
Hagen	Sandy, isotic, mesic Vitrandic Haploxerepts
Hanning	Fine-silty, mixed, superactive, mesic Pachic Argixerolls
Haploxerolls	Haploxerolls
Hardesty	Ashy, glassy, mesic Vitrandic Haploxerolls

Table 17.--Taxonomic Classification of the Soils--Continued

Soil name	Family or higher taxonomic class
Honeyjones[1]	Ashy over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands
*Hoodoo	Ashy, glassy, nonacid, frigid Aquandic Humaquepts
Huckle	Ashy over loamy-skeletal, amorphic over isotic, frigid Typic Udivitrands
*Hunters	Coarse-silty, mixed, superactive, mesic Vitrandic Haploxerolls
Hysing	Ashy over sandy or sandy-skeletal, amorphic over isotic, frigid Typic Udivitrands
Jacot	Ashy over loamy, amorphic over isotic, frigid Alfic Udivitrands
Kaniksu	Sandy, isotic, frigid Vitrandic Haploxerepts
*Keeler	Fine-loamy, isotic, frigid Vitrandic Hapludalfs
Kellerbutte	Ashy over loamy-skeletal, glassy over isotic, frigid Typic Vitrixerands
Klickson	Loamy-skeletal, isotic, frigid Vitrandic Argixerolls
Kramerhill	Fine-loamy, isotic, mesic Vitrandic Haploxeralfs
Kronquist	Fine-loamy, isotic, frigid Aquandic Endoaqualfs
Kruse	Fine-loamy, isotic, frigid Vitrandic Haploxeralfs
Lacy	Loamy-skeletal, mixed, superactive, mesic Lithic Ultic Argixerolls
Lakespring	Fine-loamy, mixed, superactive, mesic Vitrandic Haploxeralfs
Lakestarr	Fine-loamy, isotic, frigid Andic Hapludalfs
Lance	Fine-silty, mixed, superactive, mesic Calcic Haploxerepts
Larkin	Fine-silty, mixed, superactive, mesic Ultic Argixerolls
Latah	Fine, mixed, superactive, mesic Xeric Argialbolls
Latahco[1]	Fine-silty, mixed, superactive, frigid Argiaquic Xeric Argialbolls
Lenz	Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls
Libertybutte	Loamy, mixed, superactive, mesic Lithic Argixerolls
Lotuspoint	Loamy-skeletal, isotic, mesic Andic Haploxerepts
Lovell	Fine-silty, isotic, frigid Aquandic Epiaqualfs
*Lovell	Fine-silty, isotic, frigid Aquandic Haploxeralfs
Marble	Mixed, mesic Lamellic Xeropsamments
Marblespring	Sandy-skeletal, mixed, mesic Typic Xerorthents
McCrosket	Loamy-skeletal, isotic, frigid Vitrandic Haploxerolls
Micapeak	Coarse-loamy, isotic, frigid Vitrandic Haploxerepts
*Mondovi	Coarse-silty, mixed, superactive, mesic Vitrandic Haploxerolls
Morical	Fine-loamy, mixed, superactive, mesic Vitrandic Argixerolls
Naff	Fine-silty, mixed, superactive, mesic Typic Argixerolls
Nakarna	Ashy over loamy, amorphic over micaceous, frigid Typic Udivitrands
Narcisse	Coarse-loamy, mixed, superactive, mesic Cumulic Haploxerolls
*Nez Perce	Fine, mixed, superactive, mesic Xeric Argialbolls
Northstar	Loamy-skeletal, mixed, superactive, mesic Vitrandic Haploxerolls
Opportunity	Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls
Peone	Ashy, glassy, nonacid, mesic Aquandic Endoaquepts
Phoebe	Coarse-loamy, mixed, superactive, mesic Vitrandic Haploxerolls
Pinecreek	Ashy over loamy-skeletal, glassy over isotic, frigid Humic Vitrixerands
Pywell	Euic, frigid Typic Haplosaprists
Quinnamose	Coarse-loamy, isotic, frigid Vitrandic Haploxerepts
Rasser[1]	Loamy-skeletal, isotic, frigid Vitrandic Haploxeralfs
Reardan	Fine, mixed, superactive, mesic Typic Palexerolls
Reggear[1]	Fine-silty, mixed, active, frigid Vitrandic Fraglossudalfs
Rockly	Loamy-skeletal, mixed, superactive, mesic Lithic Haploxerolls
Saint Maries[1]	Loamy-skeletal, isotic, frigid Vitrandic Eutrudepts
Saltese	Euic, mesic Typic Haplosaprists
Santa	Coarse-silty, mixed, superactive, frigid Vitrandic Fragixeralfs
Schumacher	Fine-loamy, mixed, superactive, mesic Ultic Argixerolls
Scoap	Loamy-skeletal, isotic, frigid Vitrandic Haploxerolls
Scrabblers	Sandy, isotic, frigid Andic Haploxerepts
Seaboldt	Coarse-loamy, isotic, mesic Vitrandic Haploxerolls
Setters[1]	Fine, smectitic, frigid Ultic Palexerolls
Sharptop[1]	Coarse-silty, isotic, frigid Vitrandic Haploxeralfs
Sinkler	Fine-silty, mixed, superactive, frigid Vitrandic Haploxeralfs
Skalan	Loamy-skeletal, isotic, mesic Vitrandic Haploxeralfs
*Southwick	Fine-silty, mixed, superactive, mesic Vitrandic Argixerolls
Speigle	Loamy-skeletal, isotic, mesic Vitrandic Haploxerolls
Spens	Sandy-skeletal, mixed, mesic Typic Xerorthents
Spokane	Coarse-loamy, isotic, mesic Vitrandic Haploxerolls

Table 17.--Taxonomic Classification of the Soils--Continued

Soil name	Family or higher taxonomic class
Springdale	Sandy-skeletal, isotic, mesic Vitrandic Haploxerepts
Staley	Fine-silty, mixed, superactive, mesic Calcic Haploxerolls
Stapaloop	Coarse-loamy, isotic, frigid Vitrandic Haploxerepts
Stien	Ashy-skeletal over loamy-skeletal, aniso, glassy over isotic, frigid Typic Vitrixerands
Stutler	Loamy-skeletal, isotic, mesic Vitrandic Haploxerepts
Swakane	Loamy-skeletal, mixed, superactive, mesic Lithic Ultic Haploxerolls
Taney	Fine-silty, mixed, superactive, frigid Vitrandic Argixerolls
Tekoa	Loamy-skeletal, mixed, superactive, mesic Vitrandic Argixerolls
Thatuna	Fine-silty, mixed, superactive, mesic Oxyaquic Argixerolls
Tilma	Fine, mixed, superactive, mesic Xeric Argialbolls
Torboy	Sandy, isotic, frigid Vitrandic Haploxerepts
*Tucannon	Fine-loamy, mixed, superactive, mesic Vitrandic Haploxerolls
Uhlig	Coarse-loamy, mixed, superactive, mesic Vitrandic Haploxerolls
Vay[1]	Medial over loamy-skeletal, amorphic over isotic Typic Vitricryands
*Vaywood	Medial over loamy-skeletal, amorphic over isotic Typic Vitricryands
Wapal	Sandy-skeletal, isotic, frigid Vitrandic Haploxerepts
Wolfeson	Coarse-loamy, isotic, frigid Oxyaquic Vitrandic Haploxerepts
Xerolls	Xerolls

[1]In the detailed soil map units, these soils are minor components only. A taxonomic unit description is not included in this report.

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General Soil Map
Spokane County, Washington

N

PEND OREILLE COUNTY
SPOKANE COUNTY
STEVENS COUNTY
SPOKANE COUNTY
BONNER COUNTY
KOOTENAI COUNTY
SPOKANE COUNTY
LINCOLN COUNTY
SPOKANE COUNTY
SPOKANE COUNTY
KOOTENAI COUNTY
SPOKANE COUNTY
BENEWAH COUNTY
SPOKANE COUNTY
WHITMAN COUNTY

Deer Park
Spokane
Cheney
Spangle
Rockford
Spokane River

Soils on Foothills and Mountains

1. Bouldercreek-Jacot-Boulderjud
2. Lenz-Spokane-Rock outcrop
3. Ardenvoir-Tekoa-Lotuspoint

Loessal Soils on Basalt Plateaus

4. Naff-Garfield-Thatuna
5. Athena-Broadax-Reardan

Soils on Channeled Scablands and Basalt Plateaus

6. Rockly-Northstar-Rock outcrop-Cocolalla
7. Cheney-Alecanyon-Phoebe-Stutler
8. Brincken-Lakespring-Seaboldt

Soils on and adjacent to Basalt Canyons, Escarpments, and Plateaus

9. Marble-Springdale-Spens
10. Klickson-Speigle-Xerolls, mass wasted-Rock outcrop

Glaciofluvial Soils in Broad Valleys

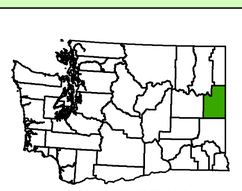
11. Kaniksu-Torboy-Stapaloop-Scrabblers
12. Urban land-Opportunity-Marble, disturbed
13. Green Bluff-Cedonia-Hunters

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Washington State University, Agricultural Research Center
Spokane Conservation District

0 2 4 6 8
Miles
0 2 4 6 8
Kilometers

This map was designed at 1:160,000 scale using a 24" x 28" layout.
1 inch equals approximately 2.5 miles when printed without scaling at that size.



Sources:
Soil aggreagations and polygon boundaries developed by NRCS.
Shaded relief acquired from ESRI Base Maps.
Cities and roads provided by Washington State Dept of Transportation.
County Boundaries acquired from National Atlas of the United States, 200506.

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